

1 UNITED STATES DISTRICT COURT
2 SOUTHERN DISTRICT OF NEW YORK

3 FEDERAL TRADE COMMISSION,

4 Plaintiff,

5 v.

23 Civ. 6188 (ER)

6 IQVIA HOLDINGS, INC. and
7 PROPEL MEDIA, INC.,

8 Defendants.

Trial

9 New York, N.Y.
10 December 1, 2023
9:00 a.m.

11 Before:

12 HON. EDGARDO RAMOS,

13 District Judge

14
15 APPEARANCES

16
17 JENNIFER FLEURY

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19 MICHELE SEO

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1 (Trial resumed)

2 THE COURT: We have a couple of minutes before 9 a.m.
3 Is there anything that either side wish to raise?

4 Ms. Fleury.

5 MS. FLEURY: Yes, your Honor. Based on defendants'
6 representations, the remaining witnesses for their side are,
7 first, Google, then Mr. Resnick of IQVIA, and then Dr. Juna.
8 The government will rest its case now.

9 THE COURT: At this point?

10 MS. FLEURY: At this point.

11 THE COURT: Is there like a Rule 29 equivalent of FTC
12 preliminary injunction hearings?

13 MS. FLEURY: I don't think so. This is what we are
14 going with, your Honor.

15 THE COURT: Very well. Good.

16 Anything from you, Ms. Fiebig?

17 MS. FIEBIG: No. Thank you, your Honor. We are ready
18 to begin whenever you are prepared to go forward.

19 THE COURT: I am ready.

20 MS. FIEBIG: Thank you very much. IQVIA calls for its
21 first witness this morning by deposition designation Mr. Sam
22 Temes. He is the managing director of global product and sales
23 strategy at Google.

24 THE COURT: How do you spell his name?

25 MS. FIEBIG: The last name is T-e-m-e-s. First name

Sam.

MS. PEREZ: Your Honor, if I may, I'm Christina Perez. I represent the Federal Trade Commission.

Before the video plays, the FTC would like to note for the record certain circumstances surrounding Google's testimony. May I explain?

THE COURT: Sure.

MS. PEREZ: Thank you.

On Wednesday, Google's witness, Mr. Samuel Temes, and his counsel came to the courthouse and waited outside this room to be called to testify.

If you remember, however, defendants chose to show two videos, taking nearly an hour, of Eversana and Throtle, instead of calling Google live.

Google was also prepared to return to the court on Thursday for live testimony. However, defendants have chosen to present them only via video designations.

To ensure the record is clear, we would like to present a binder to the Court with the FTC exhibits that were used during the deposition, as well as one additional document from Google's website, which the FTC has already shared with the defense counsel and that we intended to use during the cross-examination. We believe this document is important to understand the totality of Google's testimony and will support what he says about the policies that you care about today.

1 THE COURT: Are you referring to a specific document
2 or the multiplicity of documents in the binder?

3 MS. PEREZ: There were multiple documents in the
4 binder. All of them except for one is used during the
5 deposition that you will see today. We would like to have
6 approval to add this additional document that we would have
7 used in cross-examination that we believe would support the
8 testimony.

9 THE COURT: Any objection?

10 MS. FIEBIG: No, your Honor. Although I'd also
11 appreciate the opportunity to provide a note of context on
12 documents.

13 THE COURT: You want to do that now?

14 MS. FIEBIG: If the FTC is done, yes, please.

15 THE COURT: Ms. Perez.

16 MS. PEREZ: I am done. Thank you.

17 THE COURT: Ms. Fiebig.

18 MS. FIEBIG: Thank you, your Honor.

19 We just wanted to share that the deposition video that
20 will be played this morning runs about 45 minutes. It was
21 taken in October, about six weeks ago, by Mr. Obaro for IQVIA.

22 And you will hear during that deposition testimony
23 reference to a declaration that the government obtained from
24 Google in May of 2023, so about six months ago. That
25 declaration is available to you in the binder that we will

1 approach to provide, with your permission, at PX-0009. It will
2 display during the course of the deposition video, and you will
3 hear the witness' testimony clarifying that declaration.

4 THE COURT: OK.

5 You want to give me your documents?

6 MS. FIEBIG: Yes. If we may approach, we will as
7 well.

8 THE COURT: Yes, please.

9 MS. FIEBIG: Your Honor, while those are being passed
10 up, Google has requested that these proceedings be sealed for
11 this portion of the testimony, although IQVIA's in-house
12 counsel may remain.

13 THE COURT: Again, if you are not part of the
14 litigation teams, please exit the courtroom.

15 Who is IQVIA's in-house counsel? I see a bunch of
16 hands over there.

17 MS. FIEBIG: Yes. There are three present.
18 Ms. Maureen Nakly is here, Mr. Harvey Ashman, and Mr. John
19 O'Toole.

20 THE COURT: I have seen them throughout the
21 proceedings.

22 Very well. It appears that folks have left the
23 courtroom, so I think we can begin.

24 SAM TEMES, by video.

25 (Video played)

1 THE COURT: Does that complete the presentation?

2 MS. FIEBIG: Yes, your Honor.

3 IQVIA is prepared to call as its next witness Mr. Jon
4 Resnick.

5 THE COURT: Very well.

6 MS. FIEBIG: Who is outside of the courtroom but who
7 will be escorted in momentarily. He is the president of
8 IQVIA's U.S. and Canada business.

9 THE COURT: We are going to open the courtroom,
10 correct?

11 MS. FIEBIG: Yes, your Honor.

12 Your Honor, while the witness is arriving, may we
13 approach to provide witness binders?

14 THE COURT: Absolutely.

15 MS. FIEBIG: Thank you.

16 JON RESNICK,

17 called as a witness by the Defendants,

18 having been duly sworn, testified as follows:

19 THE COURT: Ms. Fiebig.

20 DIRECT EXAMINATION

21 BY MS. FIEBIG:

22 Q. Good morning, Mr. Resnick. How are you?

23 A. Good morning.

24 Q. Thank you for being here and for joining us for the
25 duration of these proceedings.

1 I was hoping you could start by introducing yourself
2 to the Court and sharing a bit about yourself on a personal
3 level.

4 A. On a personal level, sure. Jon Resnick. I'm the president
5 of U.S. and Canada for IQVIA. Chicago native. Lived a little
6 bit everywhere: New York, Washington, D.C., London in the last
7 decade or so in Essex County, New Jersey. Wife, three kids.
8 Avid runner. Got to do the Brooklyn Bridge this morning. So
9 thank you.

10 Q. Mr. Resnick, have you always worked in healthcare?

11 A. Yeah. My entire career, which is frighteningly now 30
12 years, is all in healthcare.

13 Q. Could you share with the Court a little bit about your
14 professional background before you joined IQVIA.

15 A. Yeah. I would talk about my professional career probably
16 in two tranches because I have really only had two jobs. I
17 started my career on Capitol Hill working in the Senate Finance
18 Committee.

19 Actually, coincidently, for this building's namesake,
20 I spent five years working for Senator Daniel Patrick Moynihan
21 from New York, who was a big influence in my life. He wrote my
22 applications to business school. And a variety of roles of
23 doing -- I started as a staff assistant and worked my way up to
24 a professional healthcare and Social Security staffer writing
25 legislation on things like Medicare prescription drugs and

things like that.

Took a couple of years to go to business school in Chicago. Went to Northwestern, where I focused on management and strategy and healthcare.

And I came out of business school and moved to New York City and took an entry-level management consulting job at a predecessor company of what was -- what is today IQVIA, and I've been with IQVIA now, this is my 22nd year.

Q. You started with IMS 22 years ago as an entry-level consultant?

A. I started as an entry-level consultant 22 years ago. I kind of worked my way up. Ran a market-access consulting practice, which was about how to get access to medications for patients. I worked my way up to run that team and that consulting business. I was asked to move to London to run and create a business there. Ended up running our management consulting business in Europe.

And then came up with an idea for a different type of business, a business called Real World Evidence, which was a slightly different type of business, which I launched in 2011 within IQVIA, which has grown today to be about a billion dollars, and led then to leading the merger between IMS Health and Quintiles. And then in 2019, I was asked to run our operations in the U.S. and Canada.

Q. I'd like to talk a little bit more about the Real World

1 Solutions business, because this is the first opportunity the
2 Court has really had to hear about IQVIA's business. Could you
3 just describe in practical terms what the Real World Solutions
4 business does and maybe provide a couple of examples, if you
5 could.

6 A. I will. I'll try to keep it simple. We have heard the
7 term real world data used a number of times, which means all
8 the data that's collected from everyday use, from EMRs, medical
9 records and from insurance companies and pharmacies, and we
10 focused a lot on the digital advertising use case, which is
11 what these hearings have centered on.

12 But Real World Evidence is different. It's taking all
13 of that available information and applying epidemiological and
14 statistical techniques to help solve challenges as a broader
15 healthcare level. So taking all of that data and producing it
16 for regulators so they understand which drugs are safe, which
17 drugs are effective. It means going and working for pairs and
18 understanding which drugs should be on formulary and which
19 drugs shouldn't be on formulary. It means going and working
20 with professional associations and hospitals about developing
21 clinical guidelines and understanding best path of treatment.

22 Real World Evidence is really making sense of all of
23 this kind of data exhaust or data that's collected every day
24 and applying it to kind of mission critical needs in the
25 healthcare sector.

1 Q. An example of that would be, for example, trying to figure
2 out how breast cancer drugs might apply more broadly than they
3 are understood to apply?

4 A. Yeah. That is -- that's a good example which I think I've
5 shared with you in the past. This is a great example of real
6 world data, and Real World Evidence plays a role.

7 The gold standard is clinical trials. You hear a lot
8 about how you run a randomized clinical trial. That trial
9 enrolls a population. They pick everybody who is enrolled.
10 They look a certain way. They have a certain amount of
11 parameters. They monitor their use on that drug during the
12 course of the trial. They report measurements. And then they
13 come up with a conclusion.

14 But what happens in the Real World is different.
15 People look different. You have different ethnicities,
16 different genetic makeups. People forget to take their
17 medicine one day, they are not getting a blood test every day.
18 There is a whole body of evidence that's created which is, how
19 do people fair in the real world. How do they actually
20 perform.

21 The example that you raised on breast cancer is a
22 great one. Everyone thinks of breast cancer as a disease that
23 predominantly affects women. Obviously, that's the great
24 majority who are affected by it. But there is a small but
25 seriously ill percentage of men as well who get breast cancer.

1 But a pharmaceutical company is not going to run a trial in
2 that small of a population. They run the trial in the
3 population for women.

4 And so the question before that we were asked to look
5 at is, can we use the available data to look at men who have
6 taken breast cancer medications and treatments and can we
7 understand its effectiveness and, as a result, working with the
8 governments and FDA and some other parties able actually to get
9 a label extension to include men in the label as well.

10 Q. I understand that the Real World Solutions business can
11 also do things with data like helping to identify at risk
12 populations. Is that one application?

13 A. Yeah. There are so many. You are going to have to stop me
14 in a moment.

15 This would be another practical application, this
16 example, and we just won a major award in artificial
17 intelligence, in machine learning for this initiative. We are
18 working with the hospital system in Chicago, and the hospital
19 system wanted to do a better job of observing patients who may
20 be at risk of domestic abuse or for food insecurity who are
21 presenting to their emergency rooms.

22 And the way that typically happens is, they rely
23 solely on the observation of a nurse or a physician who has
24 that care. We were able to build an algorithm, natural
25 language processing, that helped make sense of all the

1 available data of all their encounters and get far more precise
2 in the way they were able to do interventions. So, as a
3 result, their interventions, when they could deploy a social
4 worker to meet with the patient in the ER, went up by 65
5 percent.

6 Q. The Real World Solutions business is one part of IQVIA's
7 business. You have also talked a little bit about clinical
8 trials. Is that a significant part of IQVIA's business?

9 A. It has been a little bit surreal to be sitting at the table
10 the last few days because we have been talking about digital
11 advertising, digital advertising, digital advertising. Digital
12 advertising is a tiny percent, less than 1 percent of our
13 business.

14 We are a healthcare company. Our mission is to
15 improve the healthcare marketplace. And the average employee
16 in our company is in clinic working directly with providers,
17 directly with hospitals, directly with patients. So the
18 clinical trial business that you reference is the biggest, by
19 far, business within IQVIA.

20 Q. If we could go to the first demonstrative, Mr. Resnick.

21 Does this reflect the various business segments at
22 IQVIA?

23 A. Yes. These are the three externally reported segments:

24 The clinical trial business, our technology and analytics
25 business, which includes consulting and analytics, and our data

1 products, and then our contract sales and medical solutions,
2 which is in-home patient care and other outsourced services.

3 Q. When IQVIA has a pharmaceutical company as a customer, for
4 example, or as a client, is it possible that the pharmaceutical
5 company would work with IQVIA across one or more of these
6 verticals?

7 A. It's entirely possible, in fact likely that most of our
8 clients would work or touch us in one or multiple places.

9 Q. So you mentioned that an average IQVIA employee might be
10 working directly in a healthcare setting, in a hospital or a
11 clinic, is that right?

12 A. That's correct, yeah.

13 If I took the average, the mode, they are not behind
14 an ad tech board. The average employee within IQVIA is a nurse
15 or a clinical research associate who is out working directly in
16 the healthcare setting itself.

17 Q. I'll assume from that that many IQVIA employees were
18 directly involved with the COVID-19 pandemic, and I was hoping
19 you could tell the little bit Court about IQVIA's work during
20 that time.

21 A. That's very true. During Operating Warp Speed, during the
22 COVID pandemic, we enlisted the full weight of our company. We
23 operate in about a hundred countries around the world. We ran
24 more than 200 clinical trials for therapeutics and vaccines and
25 different diagnostics. Warp Speed was the government-sponsored

1 initiative. We worked with just about every, if not -- we did
2 work with every of the developed products that you would know.

3 We also -- it wasn't limited to clinical development.
4 We had teams -- I mentioned our teams kind of out in the
5 fields. I had teams training smaller hospitals and regional
6 hospitals how to use ventilators in their ICU. If we go back
7 to those early days of April and May, where access to
8 ventilation was the -- and ventilators was the biggest issue,
9 we were hired by the manufacturers to actually go in and to
10 train the local hospitals how to use it.

11 We had mobile lab devices. We have a clinical lab
12 business. And our lab business was providing on-the-spot COVID
13 treatment -- I'm sorry -- COVID diagnostics. We partnered with
14 the UK government to provide all of the data that was around.
15 We got to Omicron, all the different variants. All the data
16 collected was collected by our teams.

17 And personally in the United States I had -- if you
18 think about the disruption that was underway. Patients stopped
19 going to offices. Patients stopped getting their prescriptions
20 filled.

21 So we were hosting -- initially weekly, then biweekly,
22 then monthly -- phone calls with just about every healthcare
23 and president looking at the real-time data to understand how
24 patient care was changing and identifying how we could help to
25 fill in some of those patient journey gaps.

1 Q. That takes us all back to a heavy time.

2 Is that sort of the work that your kids are most proud
3 of when you talk about IQVIA?

4 A. I'm sure if my kids were here, they would be rolling their
5 eyes right now. The work they find interesting and the work
6 they like to tell their friends that their dad does is on a
7 similar theme, but slightly different.

8 If you remember, for example, in Orlando, when the NBA
9 bubble opens, that was IQVIA's teams who helped our
10 epidemiologists and our teams to set up the protocols for
11 reopening the NBA. We did the same with the IOC and the
12 Olympics. And we have a longstanding relationship with the NFL
13 and the NBA where we do all the injury surveillance. If you
14 think about every day the athletic trainers upload their data
15 on injuries to a very sequestered group within IQVIA who helps
16 monitor trends, so they can answer questions like, concussion
17 improvement and its status, Thursday game versus Sunday game,
18 grass versus turf, whole range of questions that those teams
19 will work on.

20 THE COURT: Does IQVIA know whether Aaron Rodgers will
21 play this year?

22 THE WITNESS: The reason I mentioned it was a highly
23 sequestered team, we have to be incredibly careful, given that.
24 There is a very small group who has access.

25 I would be shocked if he did, though.

1 Q. What you have described, Mr. Resnick, sounds like an
2 incredibly diverse business. As president of that business,
3 can you share with the Court sort of the scope of your
4 responsibility?

5 A. Yeah. I have responsibility for the U.S. and Canada, which
6 is roughly 50 percent of IQVIA's global business. By
7 responsibility, I mean strategy, P&L, running sales teams,
8 overseeing and accountable for business in this reason.

9 Q. You set the strategy and you bear the ultimate
10 responsibility, correct?

11 A. I set the strategy. As a manager and say leader, I like to
12 surround myself with very strong people and empower them to do
13 their job. You met, for example, Mr. Margolis, who is a super
14 competent professional, but I am ultimately responsible and
15 accountable for decisions that are made here.

16 Q. You are in leadership. You're certainly not an expert on
17 things like programmatic advertising, are you, Mr. Resnick?

18 A. Anything I thought I knew about programmatic advertising,
19 after watching for the last two weeks, I'm a little bit
20 confused by. I have seen 25 different definitions of things,
21 but I'm not an expert. I have been involved in the
22 strategy-setting here for the last two years. I'm familiar,
23 but not -- I have foreseen some of the depth and capability of
24 some of the detailed teams that have testified over the last
25 two weeks. I would not call myself an expert.

1 Q. As you have said, most of this hearing has been about data
2 sort of vaguely referenced that can be used in programmatic
3 advertising.

4 I just want to ask, part of IQVIA's business is
5 providing quality data for research, right? We have
6 established that.

7 Approximately what percentage of IQVIA's business
8 relates to licensing healthcare data?

9 A. It's actually quite a small percentage. I'd say less than
10 10 percent of our business is around licensing data. The 90
11 percent is much more akin or aligned to what I just
12 communicated.

13 Q. The Court has heard suggestions that IQVIA's data is
14 sometimes preferred by a pharmaceutical companies over other
15 data options in the market. What's your understanding of why
16 IQVIA's data might be valued by pharmaceutical companies?

17 A. I think -- I heard from a number of other witnesses this
18 week. We are quite proud of the data foundation and the data
19 that we built, we listened carefully to our clients, we
20 understand what the market needs, and we work really hard to
21 curate, which is a term that has been introduced this week, and
22 to clean up and make the data as useful and as accessible as
23 possible.

24 The other thing I note, and I have been kind of
25 watching it, the word data has been used in very general terms

1 over the course of the last two weeks, as I've sat here. We
2 are actually talking about dozens of different use cases that
3 span a spectrum. To understand truly what data is, you really
4 have to get into the individual-use case and understand the
5 range of options that exist within that use case.

6 (Continued on next page)

1 THE COURT: What is a use case?

2 THE WITNESS: So you will have very different -- I
3 mean, the case that's been talked about here is a digital use
4 case. We talk a little bit about audience and we talk a little
5 bit about identity and measurement. Those are all different
6 types of data, different ones that may be very different, what
7 a sales team is using to measure sales force effectiveness
8 which may be very different than the data I described to you
9 which is going to get submitted to the FDA for an evidentiary
10 reason. So the word "data" is used, but in fact there are
11 dozens of different data sets that all have kind of a relevant
12 time and place.

13 BY MS. FIEBIG:

14 Q. And is IQVIA the only company in the market that's sort of
15 culling and define healthcare data?

16 A. By, no means. We have heard this week from a number of
17 providers of data who are in this market. Particularly,
18 frankly, in the digital space here, we are far, far from the
19 only company who is producing data.

20 Q. Okay. So I understand from your testimony that less than
21 ten percent of IQVIA's business is licensing healthcare data
22 and that only about one percent of IQVIA's revenues relate to
23 programmatic advertising at all, is that right?

24 A. Yeah, less than one percent.

25 Q. Okay. The government stated in their opening statement

1 that 85 percent of pharmaceutical companies rely on IQVIA to
2 build their NPI target lists, direct sales, and marketing
3 outreach. Is that true, Mr. Resnick?

4 A. I can't -- I don't know where that data point would have
5 come from. It doesn't -- it's not consistent with -- it's not
6 something we measure, nor would I know how to measure it, and
7 it is quite improbable.

8 Q. So let's talk about the digital advertising business, then,
9 that's been discussed this week, recognizing it's a small part
10 of IQVIA's overall business.

11 Is there a group at IQVIA that oversees the digital
12 advertising aspect of the business?

13 A. Yeah. We have created a group called the digital
14 enablement group.

15 Q. And when was that group created?

16 A. Digital enablement was founded in summer of 2022, last
17 year.

18 Q. So just last summer?

19 A. Last summer, yes.

20 Q. Could you tell the Court a little bit about the trends that
21 you were seeing in the market that led to the establishment of
22 the digital enablement group as we were all coming out of the
23 COVID pandemic?

24 A. Yeah. I guess I point to COVID, obviously the way I think
25 of COVID is COVID accelerated trends that were happening over a

1 long period of time. But quite acutely, we saw patient care
2 change. Instead of going to an office, it moved to telehealth,
3 and you were having Zoom doctor visits.

4 You had other fundamental changes, where sales reps
5 who used to go into offices and visit directly with the doctor
6 and bring in -- the caricature, bring a doughnut to the office
7 staff, that wasn't happening anymore, so they needed new ways
8 to communicate. And this is part of a longer trend, but you
9 really saw a tipping point during COVID where -- or trend
10 break, where it really was accelerated into a different way.

11 At the same time, you have generational changes,
12 where you have younger doctors, who are much more digitally
13 savvy, prefer to interact with digital as opposed to personal
14 engagement.

15 All of that crystallized what we saw. As a healthcare
16 company, our job is to get the right treatment to the right
17 patient at the right time, and if the channels that we are
18 pursuing are analogue channels and our patients and our doctors
19 are using digital channels, we have got an obligation to meet
20 them where they are to ensure that the right healthcare options
21 are being delivered.

22 Q. So the Court heard from Mr. Margolis, who you have
23 mentioned, as well, and he testified just before this
24 Thanksgiving break because he is now CEO of another company and
25 couldn't be here this week.

1 Mr. Margolis testified that he came over to your house
2 a few weeks before Thanksgiving about two years ago. Do you
3 remember that evening?

4 A. I remember. Yeah, I remember it well.

5 Q. And can you tell us what drove Jay to come to your house
6 and what he was so excited about?

7 A. Yeah, it was November -- it was probably two years ago,
8 maybe two years ago two weeks ago, early, mid November, and Jay
9 had two meetings that week. He met with the DeepIntent team
10 and the Lasso team. And he came over. He said he was just
11 leaving the meeting. He couldn't wait. You've got to -- we've
12 got to talk about this.

13 And he drove over to the house, he sat down at the
14 table, and the two of us spent the next hour to hour and a half
15 sketching, somebody pointed out, literally on a napkin what
16 changed in the way we were thinking about programmatic.

17 Earlier we had done the acquisition of DMD, but DMD
18 was really about e-mails. There is some reference to
19 programmatic in the business case, but it was a small
20 percentage of what that overall business was. And I think, as
21 we thought about it, we thought about it historically, we
22 thought about it being a data provider to the market. But
23 Jay's idea was about how to participate more fully after
24 meeting with an operating platform and a DSP team, a broader
25 way for IQVIA to help shape that patient and physician

1 engagement.

2 Q. Okay. So let's take a look at the timeline if we could.

3 So Mr. Margolis had a conversation with you at your house a

4 couple weeks before Thanksgiving two years ago?

5 A. Yes.

6 Q. At that point the company had already acquired DMD, which

7 you considered to be primarily an e-mail asset, correct? I

8 think we can add DMD to the slide. There we go.

9 So after this discussion with Mr. Margolis, did you

10 undertake any research of your own to try to understand the

11 industry?

12 A. So if I am claiming not to be digital expert today, I

13 certainly was not a digital expert in November of 2021. So Jay

14 and I left, and I had a very clear ask of Jay, which was, let's

15 lay out how this market works. Who is in the healthcare

16 digital market? Who are the different stakeholders? What's

17 the financial flow of money? How do people make money in this

18 space? What are the spots that exist that would make sense for

19 IQVIA? Given, you know, what we do in our business, what would

20 make sense as a potential opportunity for us?

21 So that's what I asked Jay, and then I went away

22 myself and did my own research, which I am inclined to do, and

23 spent the entire weekend just trying to understand everything I

24 could about digital advertising, about the different

25 stakeholders and different players, and, you know, literally

1 spent the weekend trying to craft -- kind of learn as much as I
2 could.

3 Q. So coming out of that meeting, you started trying to do
4 some of your own research to educate yourself and you asked Jay
5 and the team to do some diligence to understand the industry,
6 correct?

7 A. That's correct.

8 Q. And then after the holidays, did Jay and the team present
9 to you some additional information about the programmatic
10 advertising industry?

11 A. Yeah, they did. They spent the better part of December
12 working through a strategic opportunity map and they came and
13 presented to me, I don't know, in the middle of June -- I'm
14 sorry, middle of January what is the range of strategic options
15 and a perspective, just like I asked them, on the flow of funds
16 and what stakeholders look like.

17 Q. Okay. Let's take a look at the first presentation they
18 made to you, Mr. Resnick. Are you familiar with this deck?

19 A. Yes, I recall this deck.

20 Q. Okay. Let's look at slide three.

21 How would you describe what's reflected here?

22 A. This was the initial time that we sat down and the team
23 presented to me what a broader digital advertising strategy
24 could look like. We talked through the broader \$13.6 billion
25 marketplace which was rapidly growing. We talked about

1 healthcare being quite nascent in its use of digital
2 approaches. We talked about the relative opportunity both on
3 the DTC side and on the provider side here, and we talked about
4 the different channels that exist and our initial market
5 opportunity assessments. We were looking across all of these
6 channels, across banner and social, e-mail, search, and
7 connected TV.

8 Q. And is IQVIA Media referenced on the left there, is that a
9 separate company or an existing company?

10 A. No. This is an initial vision document that was created
11 that January. You know, the digital enablement team would have
12 been an internal incarnation of this.

13 Q. Let's look at slide 13. Do you remember seeing this for
14 the first time?

15 A. I do.

16 Q. And is this an overview that Mr. Margolis and his team
17 prepared to give you information about the competitive
18 landscape?

19 A. Yes. This is the initial participant landscape that I was
20 presented.

21 So, your Honor, if you think about -- you asked a
22 question to the expert yesterday about the vertical stack.
23 This is the vertical stack reflected horizontally with the
24 agencies on one end and the technology that enables it going
25 through the middle, and the publishers on the end. And the

1 discussion that we had at this point was what is -- how to
2 reach the dynamics in each of these segments, who were the
3 players across each of it, and which -- within this \$13
4 billion opportunity, which were the best opportunities for
5 IQVIA.

6 Q. Okay. And in the data and identity column, do you see some
7 competitors listed there?

8 A. I do.

9 Q. And have we heard from some of those competitors this
10 week?

11 A. I think we have heard -- in one form or another, we have
12 seen just about every name up there in that board, either there
13 or on the board behind us, yes.

14 Q. Many of them have been discussed this week, but would you
15 say that this list is exhaustive?

16 A. No, by no means. In fact, this document is from early '22.
17 We have seen a number of new entrants even since this point.
18 But it was never -- as the footnote says, it was never meant to
19 be exhaustive.

20 Q. Why don't we look at slide 14.

21 Mr. Resnick, could you describe to the Court why
22 there are some DSPs listed as health specific DSPs in this
23 slide while others are listed as non-healthcare specific?

24 A. I think the terminology this week that I have heard used is
25 general DSPs as opposed to non-healthcare specific DSPs, but

1 the question I had for the team was if we are going to look to
2 take opportunity both on the DTC and on the HCP side, you know,
3 who are we going to be -- who are we going to be competing
4 with, who are the other players in the space?

5 My strong view on this market over the next couple of
6 years is that integration between those two campaigns is going
7 to be essential, and as we have looked at it, we wanted to
8 understand both those who have spent more time and identified
9 the positioning into healthcare businesses and those at the
10 time who are generalists but we know are also offering products
11 to the healthcare market.

12 Q. So when you reviewed this deck in January of 2022, was it
13 your assessment that it was actually a competitive marketplace
14 but that there might be opportunities for IQVIA?

15 A. We knew this was going to be an incredibly competitive
16 market, and we also knew that this market was going to change
17 multiple times over the next few years. We have kind of gone
18 in eyes wide open with that approach, and we knew from the
19 get-go that there would be smaller, more niche players and
20 bigger players that we would have to contend with as we worked
21 through this opportunity.

22 Q. I would like to jump ahead just a few months later. The
23 IQVIA board of directors—we can go to the next slide—was
24 presented with a deck titled "Project DOE and Project London,"
25 which we have heard this week refers to Lasso and DeepIntent.

1 Could you describe to the Court what the purpose of that deck
2 was?

3 A. So in March of '22, so this is two months after the initial
4 strategy framing by Jay and team, you know, part of that
5 strategic framing was asking the question who could we partner
6 with and/or potentially do some type of strategic deal, like an
7 acquisition, to help jump start our capabilities. And we had
8 zeroed in on two companies which initially we thought were
9 quite similar. I think we kind of later realized that they are
10 actually quite different and quite nuanced in terms of what
11 they do. But this was the initial opportunity to talk to the
12 board about the movement more broadly into digital advertising
13 and to socialize with the board that we were considering
14 looking at these two companies as potential strategic partners
15 or acquisitions.

16 Q. Okay. Let's look at slide 17. Mr. Resnick, does this
17 reflect the evolution in the thinking about whether or not
18 DeepIntent and Lasso had different and complimentary
19 capabilities?

20 A. This certainly reflects our perspective in March of 2022,
21 which is still largely consistent, probably nuanced today.
22 But, yeah, it kind of shows the -- you know, on the DeepIntent
23 side DSP, strong DTC business, had experience with connected
24 TV, it built out those capabilities.

25 On the Lasso side, not a DSP, an operating platform,

1 strong relationship with publishers.

2 So this shows kind of the relative complementariness
3 of those two businesses.

4 Q. So Lasso was an omni channel platform that had been focused
5 in HCP, and then DeepIntent actually had its own DSP and had a
6 larger presence in connected TV and DTC, is that right?

7 A. That's correct.

8 Q. Okay. Why were the DTC capabilities so important to IQVIA?

9 A. You know, so I could answer that at a couple levels, but to
10 try to be brief, first of all, if you think about the mission
11 of what we are trying to accomplish, we want to communicate
12 both to HCPs and to patients. We want to make sure that they
13 all have all of the information they need to get best in care.

14 Second, if you think about the relative opportunity,
15 the HCP side of this is a smaller -- still large, but a smaller
16 overall opportunity. The vast majority of the market from a
17 business standpoint is sitting on the DTC side. And I think we
18 know, looking -- you asked the question before about the big
19 players with the really strong DTC touch. You know, they will
20 get to the -- they will be moving in, and we have seen that.
21 So the ability to -- the ability for us to have capabilities
22 that span was essential to be relevant.

23 Q. Were there decks prepared after this early deck before
24 Lasso was acquired about the deal?

25 A. Yes.

1 Q. I think we can add those to the timeline.

2 Were there also decks prepared after the transaction
3 with Lasso was completed that discussed the acquisition of
4 DeepIntent?

5 A. Yes.

6 Q. And Mr. Resnick, in any of these decks, in any board
7 meeting, in any board presentation, was there ever a suggestion
8 that IQVIA would acquire DeepIntent and then foreclose data?

9 A. Absolutely not.

10 Q. And in any of these decks or in any board meeting or any
11 board presentation, was there ever any suggestion that IQVIA
12 would acquire DeepIntent and then raise prices?

13 A. Our strategy is data everywhere and there has been no
14 discussion and we have no strategic intent to do that.

15 Q. Okay. Well, the Court has heard suggestions from the FTC
16 that the proposed acquisition of DeepIntent is just part of a
17 long line of acquisitions to dominate digital healthcare
18 advertising. Do you agree with that?

19 A. There was a -- there was a mentor of mine who told me once
20 that there is no such thing as strategy. Strategy is kind of
21 looking in the rearview mirror and weaving together a story.

22 So I could see how somebody could create a narrative
23 around this, but it simply does not reflect the way this
24 happened. We bought an e-mail business with a small
25 programmatic capability. We continued to evolve our thinking

1 and continued to understand the opportunities. We continued to
2 observe a change in healthcare market, and we have continued to
3 evolve the way that we are thinking about it.

4 Q. And if someone were to set aside the formal presentations
5 and look through some of your other documents and e-mails,
6 might they see some references to other potential acquisitions
7 that are either like serious proposals from bankers and others
8 and some that are sort of just in jest?

9 A. Yes, a hundred percent. You know, part of my job. I'm
10 constantly assessing the competitive landscape. There is a
11 cottage industry just down the road here of investment bankers
12 and M & A specialists who send me sims on a daily or weekly
13 basis with new companies.

14 We heard the expert yesterday or two days ago testify
15 venture capital and private equity money flows in with a
16 thought that a strategic would buy it. So you will see lots of
17 that discussion. You will also see the reality of behavior,
18 that it's a very small, small, small percentage, maybe -- you
19 know, I don't want to put a number on it, but very, very, very
20 small percentage that is a serious conversation and even
21 smaller percentage that is -- that goes into being acquired.

22 Q. Okay. Well, let's return to this deal and some of the
23 benefits that IQVIA understands might result.

24 Are there benefits and efficiencies that you
25 understand could be achieved through the acquisition of

1 DeepIntent?

2 A. Yes. We believe there are considerable efficiencies. On
3 the cost side, there are synergies and efficiencies that are
4 driven from the ability to have an incremental option on the
5 DSP side. Lasso rents its space from Microsoft Xandr today, so
6 we pay a premium on that. So the ability to create an option
7 for our clients that would allow that to be done at a
8 non-marked up cost would create synergy.

9 And the other place is data. You know, although our
10 strategy is very clear, I will say again, is data everywhere,
11 by providing data on our platform, we think that there will be
12 an opportunity to get it without markups that other people,
13 that other participants would put on top of it, so incremental
14 efficiencies.

15 Q. So there may be some cost savings.

16 Do you also expect that IQVIA may be able to provide
17 better service to its pharmaceutical customers and others?

18 A. Yes, 100 percent we believe that. Like ultimately, as we
19 have heard consistently from the experts, we have very savvy
20 agencies, we have very savvy buyers, and they pick and choose
21 what they want to do to optimize their own campaigns and their
22 own client relationships. But we do believe that we can
23 provide a suite of services that will be competitive and that
24 will help them in executing what they need to do.

25 Q. And will the combination of HCP and DTC capabilities help

1 improve healthcare outcomes from IQVIA's perspective?

2 A. You know, as we stated today, we are a healthcare company.
3 We are not an ad tech company. And that's the objective here.
4 You know, our goal internally is around patient care and we
5 believe that being able to get an informed consumer and an
6 informed HCP with the right information at the right time will
7 lead to better outcomes.

8 Q. Okay. Well, the government has suggested that if we set
9 those aside that actually when this transaction closes IQVIA
10 intends to restrict its data products so that data can't be
11 used on other DSPs, and I just want to ask you, as the head of
12 the business for the U.S. and Canada, does IQVIA intend to do
13 that?

14 A. Absolutely not.

15 Q. And was there ever a single discussion between you or Jay
16 or the board that IQVIA would create a walled garden?

17 A. Not a conversation I've been part of or that I am aware of.

18 Q. Are you aware that, instead, Mr. Resnick, IQVIA has
19 committed to its partners that it will continue to make its HCP
20 identity data available to other DSPs and platforms?

21 A. I am extremely aware, yes.

22 Q. We have prepared a slide that reflects some of the
23 additional DSP partners that IQVIA has actually extended a
24 written offer to. Do you see that?

25 A. I do.

1 Q. I would like to ask you, Mr. Resnick, if IQVIA shares its
2 data and has a data everywhere policy, why did IQVIA undergo
3 the effort of extending additional written offers to other DSPs
4 and partners in the ecosystem?

5 A. So this is a little bit -- so over the last couple months
6 and particularly, frankly, as the government had called around
7 to a number of our clients asking questions about foreclosure,
8 we started to get a number of queries from our partners about
9 whether that was in fact our intent. You know, initially, when
10 the news was announced, no one seemed concerned. We didn't
11 hear anything from our teams. But after the news started to
12 circulate and some of the requests were made by the FTC to our
13 clients, we started to get a level of concern. So our goal and
14 objective was to knock it off. Our strategy is data
15 everywhere, and let's put contractual language and let's put --
16 let's put, you know, our money where our mouth is on this, and
17 let's reassure everyone that this is our strategy and let's
18 contract it.

19 Q. Okay. So let's just look quickly at some of that
20 documentation. Is this an example of an e-mail that was sent
21 to another DSP?

22 A. It is.

23 Q. And do you see that there are several terms listed under
24 IQVIA's commitment, the first one being that there is a minimum
25 three-year term with options for renewal?

1 A. I do see that.

2 Q. And that the offer applies to IQVIA's HCP audiences data
3 which includes the MDG and DMD data that the government has
4 referenced throughout this proceeding?

5 A. I see that.

6 Q. Do you also see that there is no minimum purchase
7 commitment?

8 A. I see that.

9 Q. And do you also see that the offer remains open for over a
10 year after this transaction may close?

11 A. I see that.

12 Q. Let's go to the next slide and look at the actual contract
13 that was offered to other market participants. Do you see that
14 this lists a statement of work?

15 A. I do.

16 Q. And is that consistent with your understanding that IQVIA
17 did in fact extend offers to others in the market who might be
18 interested in a longer term renewal of their access to HCP
19 identity data?

20 A. Yeah, not only have we extended the offer with the
21 statement of work, we also have a team of seven people who we
22 have dedicated to doing this full-time.

23 Q. Well, the Court has heard a lot about the TPA program,
24 whether that might be used to actually foreclose data. So I
25 don't think we need to rehash all of that. I just want to ask

1 you, as you are sitting here today, whether IQVIA intends to
2 use the TPA program to foreclose data to its DSP partners.

3 A. Absolutely not.

4 Q. Does it intend to use the TPA program to spy on its
5 competitors or other DSPs?

6 A. Absolutely not.

7 Q. Does it intend to use the TPA program to just roll out data
8 in dribs and drabs or to delay access to data?

9 A. No.

10 Q. Let me ask you just a couple of questions about the
11 potential integration if this transaction closes.

12 Could you describe to the Court how you would approach
13 the integration of DeepIntent?

14 A. Sure. I mean, it's a hard question because we have delayed
15 a lot of that thinking at this point. I can tell you that
16 every integration is different. They are always complex. Our
17 general strategy is to take our time, it's to be mindful and
18 thoughtful, you are dealing with people as you bring them into
19 the business. I think you could hear even today or the last
20 two weeks in court references to Lasso and MDG and DMD. These
21 are companies that have been a part of IQVIA for a couple of
22 years, even longer than that in the case of MDG. So this stuff
23 does not happen quickly. It takes time to work through, and we
24 will be judicious, as we always are.

25 Q. And if down the line the transaction for some reason needed

1 to be unwound, could IQVIA do that?

2 A. Yes. I mean, I guess I would cite two things to that.

3 One, the -- DeepIntent is a fantastic company which we
4 are super hopeful will join the IQVIA family. But at the end
5 of the day it's IP. It's a handful of client accounts and
6 people and all three of those are -- you can pull those out.

7 And secondly, for very different purposes, nothing to
8 do with government questions, we have rolled out and divested
9 other acquisitions that we have done over time. In fact, I
10 just oversaw a divestiture in the last 24 months of a business
11 that would fit better with another type of company, and that
12 was five years after the acquisition.

13 Q. We are almost at time, Mr. Resnick, and I was hoping that
14 we could just close by asking you, based on the information
15 you have about the industry and your professional experiences
16 and what you have learned from your teams and what you have
17 heard in this hearing, could you just share with the Court your
18 view of what the healthcare marketing/digital advertising
19 industry looks like over the course of the next three to five
20 years.

21 A. Yeah. Well, I think you established for me I may not be a
22 digital advertising expert, but I am, I believe, pretty good at
23 seeing a lit bit what's around the corner and building
24 businesses and what's next. What I can say definitively about
25 this market is it's barely started. I mean, we have seen, your

1 Honor, in the last 12 months everybody talking about ChatGPT
2 and OpenAI. These were not things we knew about a year ago.
3 These are ground-breaking, large-language models which are
4 going to change the way that machine learning works. This has
5 the potential to completely change digital advertising.

6 And just to be very kind of granular about this, if
7 you think about the ads that we display today, we have pretty
8 consistent ads that go across to different individuals. But if
9 you can take the large-language models and that AI, you can
10 actually build customized ads that have great context around
11 that individual, the messages that they want to hear, and we
12 are at any one of that technology being deployed into this
13 market. So five years from now, we will not only see those
14 big players today who are increasingly moving into that space,
15 but a whole bunch of new startups who are leveraging these new
16 machine-learning strategies to mine the Internet and to mine
17 social and web in different ways to transform this market.

18 MS. FIEBIG: Thank you very much, Mr. Resnick. No
19 further questions at this time.

20 THE COURT: I have just a couple of questions. First
21 of all, let me ask, does IQVIA have a compliance system in
22 place that provides, at least to relevant employees and
23 executives, antitrust training.

24 THE WITNESS: We -- we do. We do have that. We have
25 compliance programs that everyone needs to take and go through.

1 So, yes, we do.

2 THE COURT: The other question I have, one doesn't
3 necessarily need to be an FTC lawyer or even particularly
4 cynical to look at the offers that you have made more recently
5 concerning TPA and the provision of data on an extended basis
6 to say, well, sure, that's surely in response to the FTC's
7 action, and where is the -- is there any enforcement mechanism
8 with respect to that.

9 THE WITNESS: So, look, I don't know how we can, you
10 know, fully demonstrate intent outside of, you know, we opened
11 with Frank standing up at Digital Pharma East, making the
12 pledge to the entire industry long before any of this was
13 underway. We have consistently in our documents talked about
14 our strategy as data everywhere. And I think as was pointed
15 out, the contracts that we sent out don't have a data explosion
16 date of when you make your decision. Those contracts that sit
17 before the DSPs have a date of December 31, 2024. So they have
18 a full 12 months after you have decided on this to make the
19 decision. So this is our strategy. We have teams dedicated to
20 doing it. We believe it is in our economic and strategic
21 interest and mainly in our client interest because they are
22 going to demand flexibility to pursue this strategy.

23 THE COURT: Thank you.

24 THE WITNESS: Thank you, your Honor.

25 THE COURT: We will take our break now and we will

1 come back—I will give you a couple extra minutes—at 10:55.

2 THE WITNESS: Thank you, sir.

3 MS. FIEBIG: Thank you, your Honor.

4 (Recess)

5 THE COURT: Everyone can be seated.

6 Cross-examination, Ms. Fleury.

7 CROSS-EXAMINATION

8 BY MS. FLEURY:

9 Q. Good morning, Mr. Resnick.

10 A. Good morning.

11 Q. I will be asking you questions today in an open courtroom.

12 I have conferred with your counsel and I don't believe any of

13 my questions will cause you to divulge confidential

14 information; but to the extent a question I ask touches upon

15 confidential information, please let me know and we can make

16 arrangements.

17 A. Understood. Thank you.

18 MS. FLEURY: Your Honor, may we approach with a

19 witness binder?

20 THE COURT: You may.

21 BY MS. FLEURY:

22 Q. I want to start this morning by talking about your decision

23 to acquire both Lasso and DeepIntent.

24 You testified that you were ultimately responsible for

25 the decision to buy both DeepIntent and Lasso, correct?

1 A. Correct.

2 Q. You testified this morning about a whole host of reasons
3 you wanted to buy both companies, and you described what you
4 saw as their complementary capabilities, right?

5 A. That's correct.

6 Q. But you weren't always sure you were going to buy both
7 companies, correct?

8 A. I don't think we were always sure we were going to buy
9 either company or both companies.

10 Q. So let's take a look at PX 1540, which is in your binder,
11 and it is also going to be pulled up on screen, which may be
12 easier because it is a text message conversation.

13 This is a text message conversation between you and
14 Jay Margolis. And you have seen this before, correct?

15 A. I have.

16 Q. So this is a text message conversation between you and
17 Mr. Margolis in March of 2022, and at this point in time, as
18 you have just told me, you hadn't decided which or whether you
19 were going to buy these two companies, correct?

20 A. Correct.

21 Q. And this time, in March of 2022, is months after that
22 conversation you discussed with your counsel where Mr. Margolis
23 came to your house shortly before Thanksgiving the year prior,
24 correct?

25 A. That meeting was in November of '21 and we are now in March

1 of '22.

2 Q. Let's turn to the second page of this document, and around
3 the middle of the page, at time stamp 13:07, you texted
4 Mr. Margolis, "how are you going to run Lasso?" Do you see
5 that?

6 A. Yes, I see that.

7 Q. Mr. Margolis responded one text down, "On with the guys
8 right now. Pivoting towards DI."

9 DI means DeepIntent, correct?

10 A. I assume, yes.

11 Q. A few texts after that, you asked Mr. Margolis, "Walk away
12 from Lasso?" And Mr. Margolis responded, "Potentially, yes."
13 Correct?

14 A. That's how it reads, yes.

15 Q. Mr. Margolis also told you just below that that Lasso's
16 "operating model is hugely problematic and we would have none
17 of that baggage with DI." Do you see that?

18 A. I see it.

19 Q. In the next text, you asked Mr. Margolis, "Which one is the
20 better strategic fit?" Correct?

21 A. That's what it reads, correct.

22 Q. And if we turn to the next page, you said in that second
23 text there, "What if we gave them more upfront and assigned
24 them to the overall IQVIA media case instead," referring to
25 Lasso, correct?

1 A. Sorry, I just want to make sure I'm -- do you mind just
2 showing me the prior, just so I can make sure the flow?

3 Q. Sure. "We can always rethink," and you have it also in
4 your binder there.

5 A. Yeah, we are moving back and forth between conversations
6 with DeepIntent and Lasso at this point, so I just -- I'm not
7 100 person certain which one we are -- walk away from Lasso.
8 Okay.

9 Q. Maybe it would help if we move to the next text after "what
10 if we gave them more upfront." Then Mr. Margolis said
11 "publisher, measurement, audiences, keeping DI as a customer
12 all get difficult." Do you see that?

13 A. Yes, I see that.

14 Q. When we spoke about this at your deposition, you said you
15 don't know, didn't you know what Mr. Margolis meant when he
16 wrote at the time keeping DeepIntent as a customer would get
17 difficult if you acquired Lasso, correct?

18 A. That's correct, and still true today. I don't know what he
19 meant.

20 Q. But then he wrote to you that "DeepIntent is the market
21 leader in HC, further along in CTV and DTC, and helps us
22 accelerate global." Correct?

23 A. Yes, that's what it says.

24 Q. And what is interesting about that text is that it is
25 remarkably consistent with what you testified earlier this

1 morning. For instance, you testified earlier that DeepIntent
2 was it further along in CTV, correct?

3 A. Correct.

4 Q. You testified earlier that DeepIntent was further along in
5 direct-to-consumer advertising, correct?

6 A. I testified to that, and so I think the testimony we saw
7 over the last two weeks also supported that.

8 Q. And you would agree with me that you thought at the time
9 that DeepIntent would help you accelerate in a global sense,
10 correct?

11 A. We had some preliminary discussions around global extension
12 which had been put on pause, but, yes, that was part of the
13 story.

14 (Continued on next page)

1 Q. So the only part that's different than what Mr. Margolis
2 said here is he said DeepIntent is the market leader in HC,
3 meaning HCP, correct?

4 A. Most likely yes.

5 MS. FLEURY: Let's turn to a new document, PX-1538.

6 Q. This is another text chain between you and Mr. Margolis and
7 this one is from March 23 of 2021. At the bottom of the second
8 page 002, at time stamp 13:52, you told Mr. Margolis you were
9 going back and forth with Ari at startups. Here if you want to
10 follow, I'm at 13:52: Ari is Ari Bousbib the CEO of IQVIA,
11 correct?

12 A. Ari Bousbib, yes.

13 Q. We have not heard any testimony from Mr. Bousbib in this
14 hearing, correct?

15 A. That's correct.

16 Q. Mr. Bousbib will be testifying for the first time in the
17 merits proceeding later this month, correct?

18 A. I don't know about that.

19 Q. You wrote just below that: If we have five companies to
20 workshop, what would they be?

21 Do you see that?

22 A. I see that.

23 Q. And then Mr. Margolis replied with his list just below. He
24 wrote: Thinking. Number 1. Platformed analytics, Ala Komodo.
25 And then his number 5 was an HCP platform.

1 Do you see that?

2 A. I see that, yes.

3 Q. And included with that he wrote: Not sure of the content,
4 but something that gives us captive eyes, data, and ad
5 placement, correct?

6 A. Yes.

7 Q. And this text message was roughly the same time period as
8 the text we just looked at where you were trying to decide
9 Lasso, DeepIntent, or both, correct?

10 MS. FIEBIG: Objection. I am not sure that that
11 accurately reflects the dates. Just before he confirms that's
12 correct, do you mean 2021 or 2022?

13 MS. FLEURY: You are correct.

14 Q. Here you were talking about, on March 23, 2021, about an
15 HCP platform, correct?

16 A. I see the text message, but I don't have a lot of context
17 for it.

18 Q. So let's talk about this time period in 2021.

19 MS. FLEURY: Thank you for that.

20 Q. When IQVIA was evaluating DMD for a potential acquisition,
21 you testified that DMD was just an email asset earlier,
22 correct?

23 A. I think I said predominantly an email asset.

24 Q. I'd like to turn to PX-1596 in your binder.

25 This is an email, dated May 28, 2021, from you to

1 Annie Wang, correct?

2 A. That's correct.

3 Q. Annie Wang was your executive assistant?

4 A. Chief of staff.

5 Q. The subject is key points. This was an email from you
6 regarding the DMD acquisition, correct?

7 A. This was -- this was notes from a meeting that we had at
8 the end of May, which were typed up.

9 Q. And this was a note you drafted regarding the DMD
10 acquisition?

11 A. This was a summary of notes from a meeting. Whether I
12 drafted or Annie drafted, I can't be sure, but those are a
13 summary of the notes from a meeting from my email.

14 Q. You were summarizing here the key points from IQVIA's
15 perspective regarding the DMD acquisition, correct?

16 A. That's what appears to be.

17 Q. Let's go quickly through a couple of these key points for
18 why IQVIA should acquire DMD. If you go to the third key
19 point, it describes why IQVIA has secret sauce.

20 Do you see where I am?

21 A. I do.

22 Q. DMD's secret sauce, according to what you wrote here, has
23 multiple components, but two of them are compliant consented
24 access to 6 million HCPs and a healthcare publishing network,
25 correct?

1 A. That's what's written, yes.

2 Q. At the bottom of the page there you explained that the
3 healthcare publishing network was founded by DMD 10 plus years
4 ago to provide MDM and analytics work to healthcare publishers
5 in exchange for consented physician access.

6 Do you see that?

7 A. I see that's what's written there. Again, I am not sure if
8 I drafted this or if it was someone on my team taking notes,
9 but I see the reference to it.

10 Q. If you go up to the seventh bullet, what are the synergies,
11 it talks about complementing one key, which was an existing
12 data offering that IQVIA had, correct?

13 A. Yes, that's correct.

14 Q. You also wrote that it complements MedData Group, correct?

15 A. That's correct.

16 Q. In the last sentence you wrote that DMD was the best player
17 in town that go through activation measurement and
18 optimization, correct?

19 A. Again, I don't want to quibble too much, but just for
20 clarity, I don't know if I wrote this. These are definite
21 notes from that meeting and that's what's written here.

22 Q. Since this keeps coming up, let's go to your deposition at
23 page 138, lines 8 through 16:

24 "Q. My question was, you drafted this email -- sorry. Let me
25 repeat my question.

1 This is an email from you regarding the DMD
2 acquisition, correct?

3 "A. Yeah, it seems to be.

4 "Q. You summarized here the key points from IQVIA's
5 perspective regarding the DMD acquisition, correct?

6 "A. Correct."

7 A. I don't think what I'm saying today is inconsistent. I'm
8 not -- it was an email from -- that went from my inbox to
9 Annie's. I just don't know if I'm the one who drafted it or
10 not. It doesn't matter. I was a part of this meeting,
11 regardless.

12 Q. Understood.

13 Let's go up to bullet 5. This, again, is still about
14 the DMD acquisition. It says: What we plan to do it. Become
15 the leader. HCP programmatic marketings, correct?

16 A. That is what it says. If you go to the DMD business case
17 and you look at the reference to the \$100 million, the vast
18 majority of that revenue is in email.

19 So in the definition, which you are going to read in a
20 moment, which is clear path to \$100 million in two to three
21 years, is email revenue. Programmatic was a very, very small
22 percentage of this business, very nascent. I think Frank Lin
23 and team testified last week that they believed there were some
24 broader programmatic opportunities. But if you look at what
25 the \$100 million in two to three years is referring to, it's

1 email plus their existing technology offer, plus a small amount
2 of programmatic work.

3 Q. I appreciate that context. But in this email summarizing
4 the DMD acquisition, your number-one item for what we plan to
5 do with it was become the leader in HCP programmatic
6 marketings, correct?

7 A. I think it's a little bit like this case overall, which is
8 what's the definition of programmatic marketing. This time, in
9 this case, in this situation, if you look through the \$100
10 million they are referring to, includes email. So email was
11 part of our definition of programmatic. It's the only way you
12 can get to the hundred million dollars in anything that we
13 have.

14 MS. FLEURY: You can pull that document down.

15 Q. I believe you and other IQVIA executives have testified
16 that foreclosing rivals from access to data is simply counter
17 to IQVIA's mission. You spoke about that this morning,
18 correct?

19 A. That is correct.

20 Q. We have just looked at a document where you were laying out
21 the reasoning behind the DMD acquisition.

22 Now I'd like us to look at an email chain from some of
23 your subordinates later in 2021, after the DMD acquisition was
24 finalized.

25 MS. FLEURY: Let's pull up PX-1031: I'd like to go to

the bottom email in the chain, which is on PX-1031-005.

Q. This is an email from Dave Escalante to a variety of IQVIA executives who I think all report up to you, either directly or indirectly, is that right?

A. I actually don't know a number of the names here. Dave does report up through me.

Q. Dave Escalante is now your direct report, right?

A. Dave Escalante is a direct report today.

Q. Mr. Escalante sent this email with high importance with the subject line: Plan to move off PP.

Do you see that?

A. I see it.

Q. He wrote: We have arrived to an important checkpoint in our relationship with PulsePoint. And he continued in item number 1 that they have moved to position themselves against us.

Are you with me?

A. I'm following along, yes.

Q. In item number 2 he says: We now have a restructured sales bag combining the best of OneKey, MDG, and DMD with new positioning.

MDG stands for MedData Group?

A. It does.

Q. For item number 3 Mr. Escalante says: We have platform partners, DeepIntent and Lasso, who are aligned to complete

1 versus PulsePoint, correct?

2 A. That's how it reads.

3 MS. FLEURY: Now, let's go up to the last email in
4 this chain. On the first page, PX-1031001.

5 Q. This one is from Bob Whiting to Frank Lin and Claire
6 O'Brien on October 22, 2021.

7 Are you with me?

8 A. I'm with you.

9 Q. Mr. Whiting says to Mr. Lin in the second sentence: The
10 conversation with WebMD Internet brands landed where we thought
11 it would, with IQVIA and WebMD parting ways. Dave is emailing
12 everyone in a little bit with this news and his direction on
13 encouraging brands to move off of PP.

14 First, do you have an understanding of how IQVIA
15 encourages to move off of competitors like PlusPoint?

16 A. This is the first time I've seen this email. I have no
17 idea what it is referring to. I can only tell you that WebMD
18 remains an important partner with multiple relationships to us,
19 and what I understood from the expert testimony this week is
20 PlusPoint is continuing to thrive with or without access to
21 IQVIA data.

22 So I'm not sure. This is not my email, it was never
23 sent to me, and it's never been discussed with me, and it's
24 inconsistent with my understanding of our relationship with
25 WebMD.

1 Q. Understood.

2 Item number 1 of Bob Whiting's email says: Frank, in
3 addition to an overall sales deck, I do think we need to have a
4 November update deck that just covers all of the major
5 implications of what a unified IQVIA plus DMD plus MDG means to
6 the marketplace. This could include sunseting our support for
7 working with PlusPoint effective. Date TBD.

8 By sunseting, that's a term meaning cut off access to
9 IQVIA data for PlusPoint specifically, correct?

10 A. I don't have any means to understand exactly what he meant
11 by sunseting. I can tell you this never reached me. This is
12 not consistent with the approach that we had then and it's not
13 consistent that the approach that we will have moving forward,
14 period. So this is -- I don't know Claire. I do know Bob.
15 These are two sales team members on the team having a
16 discussion that has -- if it was escalated to my level or up
17 here, it would stop at this point. This is just not our
18 strategy and not our approach.

19 Q. Let's look at PX-1100. We are going to start at the bottom
20 email in the chain, which has the subject line: Time-sensitive
21 data differentiation one pager. That email begins on
22 PX-1100-003. This is in May 2022.

23 Now, this email is from David Reim, who at this time
24 still has a DMD email address, but at this point in time all of
25 the people in this chain are IQVIA executives, correct?

1 A. I don't know all the names on this chain.

2 Q. But at this point in time IQVIA owned DMD, correct?

3 A. I'm telling you I am not familiar with all the names on
4 here.

5 Q. I totally understand. I am just trying to establish that
6 if people have DMD email addresses, at this point in time they
7 are IQVIA executives.

8 A. They are IQVIA employees. I think I might push back on the
9 term executive.

10 Q. Fair enough. Fair enough.

11 They are IQVIA employees.

12 A. DMD at this point would be considered an IQVIA employee,
13 yes.

14 Q. So this email -- the context for this email is a
15 presentation -- if you look at the first sentence, is a
16 presentation for an IQVIA customer, correct?

17 A. This is the first time I've seen this, so you have to give
18 me a second.

19 Q. Sure.

20 A. And I was not cc'd on this note.

21 OK. I have read the top of it.

22 Q. I am just trying to get a sense of the context. You are
23 preparing -- not you, but IQVIA is preparing for a client pitch
24 regarding IQVIA's data, correct?

25 A. I don't know if it's IQVIA data. I don't know what the

1 actual pitch was or wasn't. I don't know what Bayer was
2 asking.

3 Q. Understood. Fair enough.

4 Let's go to the final page of this document,
5 PX-1100-004. I want to look at the portion that says: Why
6 does sourcing of data under a single privacy policy. This
7 paragraph relates some facts about IQVIA's data that I'd like
8 to confirm with you.

9 The first sentence says: IQVIA obtains HCP opt-in
10 from 57 healthcare companies who all use IQVIA's privacy
11 policy.

12 Is that correct?

13 A. I can't confirm it's correct. I just wouldn't know. You'd
14 have to ask someone on the team that question.

15 Q. I'd also like to confirm the sentence a couple of sentences
16 later: Unlike alternatives, which might only source from a
17 single owner or who aggravate data across multiple privacy
18 policies, IQVIA is the only data provider to provide consent at
19 scale and under a single privacy policy.

20 Is that true, to your understanding?

21 A. I can't confirm whether it's true or untrue. Frank Lin
22 would have been the right person to ask that question to. You
23 are asking me to comment on something I just don't know.

24 Q. Let's continue on to the next paragraph. I will just ask a
25 couple more questions.

1 Is it true that with 11 billion in sales IQVIA is the
2 clear market leader in many categories of healthcare data?

3 A. Again, I'm trying not to sound like defensive, because
4 these are very broad statements that were difficult for me --
5 we talked earlier about data being very different in terms of a
6 use case. I can see what's written here. It's written by a
7 sales team. I don't know how -- I wouldn't know how to
8 substantiate it. For me to agree with it, I would need much
9 more of a fact base to it.

10 Q. Have you heard arguments, as you've been sitting in the
11 hearing, from defendants' executives and attorneys that IQVIA
12 doesn't have any unique data?

13 A. I'm sorry. Can you repeat the question.

14 Q. As you've been sitting here in court, Mr. Resnick, have you
15 heard arguments from the defense side that IQVIA doesn't have
16 any unique data?

17 A. Doesn't have any unique data?

18 Q. Yes.

19 A. I think -- I am kind -- I am not sure what I'm trying to
20 prove in that. There are multiple-use cases and multiple
21 different types of data. In some areas we are very proud of
22 the data that we bring. In other areas we are not. In these
23 specific cases that are on the demonstrative here, I would
24 argue, and I think you heard pretty consistently from others
25 who testified, that there are a number of players who have

1 high-quality data in this space.

2 Q. Understood.

3 What I'm trying to confirm with you, looking at this
4 document, is the truth of sentences like the last sentence of
5 the same paragraph: Competitors are forced to use other
6 substandard data sets to provide their advanced targets, which
7 limits their effectiveness.

8 A. I see the sentence on the piece of paper and I a hundred
9 percent expect our sales teams to position it that way.

10 But I also, over the last couple of days, heard Andrew
11 Kress yesterday use very similar language talking about his
12 audience data. And as we went through a number of other
13 vendors, part of which the hearing was closed, but they all
14 said similar things. When you're positioning your data and
15 when you are talking to your clients, this is how you do it.
16 This is what you do.

17 Q. Let me ask you a more specific question. The second
18 sentence in that paragraph we have been discussing, if a brand
19 wants to further refine their audience for digital engagement,
20 IQVIA's ability to use its own data to create advanced
21 audiences provides our customers with the highest quality data
22 throughout the targeting pipeline.

23 So specifically to this advanced audiences aspect of
24 IQVIA's data offerings, is that something that all of the other
25 companies you've been talking about all offer, or is that

something that is unique to IQVIA?

A. I don't think any of this is unique to IQVIA. I didn't have an opportunity to sit through all of them, but I'm pretty sure I heard Andrew Kress yesterday talk about how unique his were and say he believed his data was better. Each of us are going to position it in a particular way in a sales document, but there are pluses and minuses of everything. It depends on the type of question that's being asked by the client, the type of therapeutic area, and there is going to be puts and takes on each.

Q. Did you also hear Mr. Kress testify that he licenses his data from other companies?

A. I did hear that, but I am not sure how that changes my answer to the last question.

Q. Understood.

Let's go a little bit further down on the page of this document where it says: This is only an effective point -- on note at the end there: This is own an effective point if competitors are barred from using IQVIA data. Then the question is: Isn't IQVIA still providing these other data sets to WebMD and therefore PlusPoint?

Do you see that?

A. I see it.

Q. Let's go up to the email on Sunday, May 15, 2022, from Claire O'Brien. This is the bottom of PX-1100-002. She

1 responds to Mr. Reim's question by saying: On your question at
2 the very bottom of your notes, on advanced audiences, Dave E.
3 can confirm, but I think even though WebMD has access to OneKey
4 and some other IQVIA services, I believe that PlusPoint, even
5 though part of the Internet brands family, is restricted from
6 that data.

7 Do you see that?

8 A. I see it, yes.

9 Q. And Dave E. here, am I correct, that refers to Dave
10 Escalante?

11 A. Most likely, yes.

12 Q. If we go to the top email in the chain, Mr. Escalante
13 definitively answers the original question at the bottom of the
14 document: Good morning. FYI, PP does not have access to
15 OneKey, or any IQVIA advanced data. I shut that down last
16 September. Dave.

17 So for at least one company IQVIA shut down access to
18 maybe not all data, but at least to key pieces of data,
19 correct?

20 A. I am not familiar -- my understanding of our relationship
21 with WebMD is that we have a pretty broad data license
22 relationship. We have had that for a considerable amount of
23 time. And as we saw through the TPA process, not a single one
24 of PlusPoint's requests for access to our data have been
25 refused. So I see this. I don't have any context. I'm not

1 forwarded on any of these notes. This is not a decision I
2 made. And what we have heard testified is inconsistent with
3 that fact.

4 Q. I'd like to shift gears a little and talk about something
5 that has come up repeatedly in this hearing and in your
6 testimony this morning and that is whether IQVIA's TPA program
7 gives IQVIA the ability or not, if it so chooses, to
8 disadvantage its rivals in access to its data.

9 To start, Mr. Resnick, you do not oversee the TPA
10 program, correct?

11 A. That's correct. It's overseen by our legal department.

12 Q. You are not in a position to know the specifics of which
13 TPAs are granted, denied, or delayed, correct?

14 A. I am not in that position, no.

15 Q. Let's take a look at IQVIA's TPA policy, which is PX-1785.
16 This is a policy document to help IQVIA offices around the
17 world establish and run their TPA programs, correct?

18 A. This is the first time I've seen the document, but I'll go
19 along with you.

20 Q. Let's go to PX-1785-20. It says at the top: What you
21 should consider when reviewing and approving TPAs.

22 Do you see that?

23 A. I do.

24 Q. Do you see under offering owner the second line: When in
25 doubt, seek a second line of support: Executive level, IQVIA

1 level, or global TPA team. Correct?

2 A. That's correct.

3 Q. So executive level, that might include you or, for example,
4 Dave Escalante.

5 A. That would be examples of executives. I cannot recall a
6 single time legal has ever reached out to me to weigh in on a
7 TPA question.

8 Q. Then it says under: Things to consider when reviewing a
9 TPA with check boxes. The second one is: Vendor is a direct
10 competitor.

11 Correct?

12 A. That's one of the considerations that's outlined, yes.

13 Q. The next one is vendor is a competitor to IQVIA but not
14 directly of your offering, correct?

15 A. Correct.

16 MS. FLEURY: Let's go to PX-1785-24.

17 Q. At the top of this page it says: Vendor specific review
18 rules. This is the current list referenced when a vendor
19 secondary review is required.

20 Do you have an understanding of what a vendor
21 secondary review is?

22 A. It's not a term that I'm familiar with, but -- it's not a
23 term -- it's not something that I see.

24 Q. So if I'm understanding this correctly, these are specific
25 vendors, specific companies that when they come up in a TPA

1 request, the first line review, which is the assigned offering
2 owner reviews, but also they are required to seek second line
3 review.

4 Is that your understanding from looking at this?

5 A. Again, this happens not at my level, so I don't know the
6 frequency by which this happens. This is a process that's run
7 by our global legal team. I don't the situation or
8 circumstance by which a second line review would come under
9 consideration.

10 Q. And within that second line review one of the people you
11 can go to is Dave Escalante, correct?

12 A. That is correct. But just to clarify, this is an outdated
13 document because Dave Escalante ran our reference assets before
14 he ran into digital. The caveat there is reference offerings,
15 so it's not germane to digital.

16 Q. It's not your understanding that this document was from the
17 2022 time period?

18 A. I didn't see it, if that's what you showed to me. But,
19 regardless, the bracketed component there says reference
20 offerings. But continue.

21 Q. Mr. Escalante, as we talked about earlier, is your direct
22 report, correct?

23 A. Yes. After Jay Margolis, he is my direct report.

24 Q. Are you aware of whether IQVIA maintains watch lists beyond
25 these specific set of companies that are subject to additional

1 review under the TPA program?

2 A. The only company that I am aware of is Veeva. There could
3 be other companies. But as far as I'm concerned, the only one
4 is Veeva. And that is for very specific reasons of IP theft.

5 Q. Let's take a look at PX-1295. I'd like to look at time
6 stamp 12:29. This is an individual named Christopher Beggs,
7 who, to my understanding, currently works at IQVIA or at least
8 as of this time had an IMS health email address.

9 Do you see where I am?

10 MS. FIEBIG: Your Honor, just before this questioning
11 along these lines proceeds, I think we would request that the
12 courtroom be sealed for discussion of these documents.

13 MS. FLEURY: The FTC has no objection.

14 THE COURT: Will that include in-house counsel or no?

15 MS. FIEBIG: No. In-house counsel can remain.

16 THE COURT: In-house counsel can remain. Otherwise,
17 if you're not part of the litigation teams, please leave the
18 courtroom.

19 MR. PERRY: Mark Perry.

20 Your Honor, the business folks for IQVIA are here.

21 That's OK because these are IQVIA documents.

22 THE COURT: OK.

23 MR. PERRY: Thank you very much.

24 (Pages 1260-1286 SEALED)

25

1 (In open court)

2 THE COURT: Does the FTC have another witness? I'm
3 sorry. Does IQVIA have another witness?

4 MS. FIEBIG: Yes, your Honor. I can tell you from
5 here. IQVIA calls as its last witness Dr. Anupam Jena.

6 ANUPAM JENA,

7 called as a witness by the defendants,

8 having been duly sworn, testified as follows:

9 THE COURT: Mr. Obaro.

10 MR. OBARO: Thank you, your Honor.

11 May we approach?

12 THE COURT: You may.

13 DIRECT EXAMINATION

14 BY MR. OBARO:

15 Q. Good afternoon, Dr. Jena.

16 A. Good afternoon.

17 Q. Can you briefly describe your educational background to the
18 Court.

19 A. Sure. I went to MIT, studied economics and biology; then
20 moved to Chicago, went to medical school there and did my Ph.D.
21 in economics, both at the University of Chicago; and then moved
22 back to Boston and trained in internal medicine at
23 Massachusetts General Hospital.

24 Q. Do you currently practice medicine?

25 A. Yes, I see patients at Mass General Hospital, which is the

1 largest teaching hospital in Boston, as part of the Harvard
2 system.

3 Q. And with respect to your work as a physician, can you walk
4 the Court through your expertise.

5 A. Sure. I am an internal medicine doctor and I treat
6 hospitalized patients, so people who have things like
7 pneumonia, heart failure, difficulty breathing, in the throes
8 of the pandemic patients of COVID 19. SO that's my Clinical
9 work. But I'm also a professor at Harvard Medical School. I'm
10 a professor of healthcare policy and medicine.

11 THE COURT: Can I ask you to get a little closer to
12 the microphone.

13 THE WITNESS: Absolutely, yeah. Is that good?

14 THE COURT: Better, yes.

15 THE WITNESS: All right.

16 BY MR. OBARO:

17 Q. Are you also an economist, Dr. Jena?

18 A. Yes.

19 Q. And what's your area of expertise as an economist?

20 A. Because of my medical background, I am a healthcare
21 economist, so I study questions at the intersection of
22 medicine, health, and economics. I also trained in the fields
23 of labor economics and industrial organization. I work on a
24 range of issues related to the organization and economics of
25 healthcare markets and also studying issues around the

1 economics of physician behavior. What do I mean by that?

2 Trying to understand what is it that shapes, that drives the
3 treatment decisions that physicians make, including
4 pharmaceuticals, and also try to understand things like how
5 information affects physician prescribing.

6 Q. And have you published any articles in that regard?

7 A. Yes. So I have published probably 200 peer-reviewed
8 articles in journals like the *New England Journal of Medicine*,
9 *Journal of Health Economics*. I would say more than half of
10 those, so a hundred or more, relate to the use of large-scale
11 prescription and medical claims data as well as physician
12 characteristics data, and I work with these kinds of data sets
13 all the time to study questions about physician behavior,
14 physician prescribing, and how information affects those
15 things.

16 Q. And how have you -- can you elaborate more on how you have
17 used the data sets that you have just referred to.

18 A. Sure. So one of the core things we want to understand in
19 economics and medicine is what is it that drives physicians to
20 do what they do. A lot of factors influence physicians, one of
21 which might be information. And so in a lot of my work I'm
22 using large scale data that looks at individual physicians,
23 link the to characteristics of those physicians to understand
24 how those characteristics, how external factors like messaging
25 or information that they receive, how public policies might

influence their prescribing.

Q. Have you used these data sources as well as an expert witness in litigation?

A. I have. In probably a half dozen cases or so I have done large-scale quantitative or empirical analysis estimating the impact of marketing on physicians, on their prescribing behavior.

Q. How does your expertise relate to HCP programmatic advertising?

A. So I'm an economist and a physician. I'm not a programmatic advertiser. But nonetheless, I think there is a tremendous amount of similarity.

So what is it that happens in programmatic advertising? Well, you start with a company that has a drug or device or some healthcare product that it wants to sell, and it has some physicians or nurse practitioners providers that it wants to target. So that we call, in this industry, audience generation.

The same is true when I conduct a study. I have a set of physicians that I want to study, perhaps cardiologists. We call that inclusion criteria. What are the criteria by which physicians enter into a study that I might perform?

In programmatic advertising, HCPs are programmatically advertised to. And one thing that's important to figure out is is that working in some respect? And you might do that by

1 doing measurement, measurement of prescribing changes.

2 That measurement function, that concept is analogous
3 to what we do in research. If I'm studying the affect of an
4 intervention, for example, information provided to a
5 prescriber, I need to identify the cohort or audience of
6 physicians that I am looking at and I need to measure whether
7 or not that information or any other intervention influences
8 that behavior.

9 Q. Do you have an example of a research study that you have
10 done where you have looked at how physician behavior is
11 affected by messaging?

12 A. Yes. So here I have a couple of examples.

13 So one is, there is a drug called testosterone. Many
14 of us have probably heard of what testosterone is. In 2014,
15 the FDA issued a communication related to cardiac risks for
16 people who are using testosterone, and what we were interested
17 in understanding is how does that information, this information
18 provided to prescribers, how did it influence their prescribing
19 of testosterone? So that was a study that we performed.

20 Q. And what was your result of that study?

21 A. So the overall finding was twofold. One is that after the
22 messaging to physicians, we see a decline in testosterone
23 prescribing. Why? Because there are some safety concerns that
24 were raised.

25 And the second is that in our study, we linked

1 prescribing data to physician characteristics data, what you
2 might call audience data. We linked those two together, and we
3 can see who are the types of doctors who change their
4 prescribing more or less after this information is made
5 available to them, and what we find is primary care doctors
6 actually stop prescribing or prescribe less testosterone after
7 that messaging compared to nonprimary care doctors.

8 Q. That's helpful. Thank you.

9 Do you have another example you could share with the
10 Court?

11 A. Yeah, I do. And maybe just so it's clear for all of us
12 what does it have to do with programmatic advertising, so it's
13 the same concept. So if you have a company that is selling
14 testosterone injections and they want to figure out whether or
15 not if they programmatically target physicians or nurse
16 practitioners to prescribe more testosterone, they would have
17 to figure out an audience to do that, and that would be HCPs
18 that are prescribing the drug. It has to have measured the
19 outcomes. They look for changes in prescribing behavior. So
20 that's the bottom left of this exhibit.

21 The same thing is true in my research. I would
22 identify an audience of HCPs who are prescribing that drug, in
23 this case testosterone, and I would measure whether or not
24 there is a change in behavior. So I just want to make sure
25 it is clear how the research relates to programmatic

1 advertising.

2 You asked if I had another example, is that correct?

3 Q. Yes, I did.

4 A. I do.

5 We are in New York, and many of you probably read *The*
6 *New York Times*. There was a study or a report in *The New York*
7 *Times* not too long ago which looked at a drug called Minoxidil.
8 Minoxidil is a hair loss drug. It is applied to the scalp
9 typically. *The New York Times* published an article that looked
10 at small case studies from dermatologists who had been using
11 Minoxidil in a tablet form, something you take by mouth. And
12 what the study said, *The New York Times* article suggests, is
13 that if patients take it by mouth, that might prevent hair loss
14 or treat hair loss.

15 So, to me, that's an information shock. What is the
16 impact or what was the impact of that information on
17 prescribing? So I looked at that directly, and what you see
18 is, just within days after *The New York Times* article is
19 released, we start to see prescribers prescribing more oral
20 Minoxidil. Again, it's an example of how to generate an
21 audience or cohort of physicians who prescribe oral Minoxidil
22 and in measuring the change of prescribing after information is
23 provided to them.

24 Q. In the course of this research, have you worked with data
25 companies?

1 A. I have quite a bit, yes.

2 Q. And have you worked with pharmaceutical companies outside
3 of working with data companies?

4 A. Yes. So on the data company side there is a company called
5 Doximity that is a social network for physicians. They are
6 also a provider of what is called HCP identity or audience
7 data. I have worked closely with them over the last decade.

8 And in terms of pharmaceutical companies, I've done a
9 lot of work over the last couple of decades consulting on work
10 communicating value or assessing and then communicating value
11 to prescribers and to patients.

12 MR. OBARO: Your Honor, I would like to move to
13 qualify Dr. Jena as an expert in economics, the practice of
14 general medicine, and the use of healthcare data for evaluating
15 physician prescribing and treatment behavior.

16 THE COURT: Any objection?

17 MS. SIVA: This is Nita Siva on behalf of the Federal
18 Trade Commission.

19 Your Honor, we maintain the same objections made in
20 our motion *in limine* to exclude the testimony of Dr. Jena.

21 THE COURT: Very well. I am taking that under
22 advisement after I listen to his testimony. For the time
23 being, he will be allowed to testify as an expert in economics,
24 the practice of general medicine, and the use of healthcare
25 data for evaluating physician prescribing and treatment

1 behavior.

2 And with that, we will take our second break. We will
3 go 20 minutes. We will get back together at 45 minutes after
4 the hour.

5 (Recess)

6 THE COURT: Everyone can be seated.

7 Mr. Obaro.

8 MR. OBARO: Thank you, your Honor. We will call calm
9 back, Dr. Jena.

10 THE WITNESS: Thank you.

11 BY MR. OBARO:

12 Q. Dr. Jena, what overarching opinions did you reach in this
13 case?

14 A. There are two overarching opinions that I have, and I have
15 prepared a demonstrative so you can sort of see as I say
16 things, these things.

17 So the first is there are a lot of different data
18 providers to IQVIA's audience and claims or prescription data.
19 So that's the first opinion. And then the second is that if
20 you think about healthcare provider or HCP, or DTC or direct to
21 consumer advertising, a more unified approach to those two,
22 bringing them under the same umbrella, would benefit healthcare
23 marketers, life science companies, healthcare companies, but
24 also I think doctors and patients as well.

25 Q. So let's take each opinion at a time, starting with the

1 first one. What is the basis for your opinion that there are a
2 number of alternatives to IQVIA's audience and
3 claims/prescription data?

4 A. So here is a sort of economic framework that economists
5 have used that I applied for opinion one. And the first is to
6 start by studying the data sources that are used in various
7 stages of the HCP programmatic advertising campaign. So what
8 are the data sources?

9 The second thing is to drill in the weeds a little bit
10 and try and identify the features, the characteristics of the
11 data that are needed for programmatic audience generation or
12 measurement.

13 The third thing is, once we have the first two things
14 in place, what are the data alternatives that might be
15 available. And those are the first three things.

16 And the fourth is just to look for evidence and
17 analyze evidence in the record of whether other companies,
18 including demand-side platforms, or DSPs, are using and/or
19 switching to alternative data sets.

20 Q. So you referenced audience data. What is audience data?

21 A. At a high level, you know, a company has a drug or medical
22 device or some healthcare product that it wants to sell. It's
23 a set of HCPs healthcare providers that it wants to target,
24 that's their audience.

25 Q. And where does audience data come from?

1 A. At its core level, it comes actually from publicly
2 available information, the bedrock of which is something called
3 the National Provider Identifier, or NPI.

4 Q. And what type of information is generally attached to an
5 NPI?

6 A. Lots of information. So, for example, the NPI—I have an
7 NPI—the name of the provider, physician's name, their
8 affiliation, are they affiliated with Mt. Sinai in New York,
9 are they affiliated with Mass General in Boston, or are they a
10 solo practitioner, things like the address, their gender. It's
11 also linkable, and I have linked and others have linked it to
12 things like specialty, where you trained, what medical school
13 you went to, what year you graduated. Lots of data is
14 available on providers in this country.

15 Q. And is this information generally publicly available, the
16 information you just referenced that attached to an NPI?

17 A. It is. And this is just to give you a sense of what this
18 looks like. I could have pulled this up on a computer here in
19 the courtroom. But if you go to the NPI registry, you can
20 literally just Google it and you put in a physician's name, you
21 put in my name, Anupam B. Jena. It says my credentials M.D.,
22 Ph.D., gender male, it provides my own NPI number, tells you my
23 practice address. You could go further, look at my specialty,
24 which is internal medicine. So this data is available.

25 Q. And can you look up certain physicians or create lists or

categories of physicians?

A. Yes. So you could use the exact same publicly available website to do something like that. So let's say that you are interested in identifying cardiologists, okay, in Houston, Texas. So what would I do? I would go to the NPI website, I would see this data field here that says NPI type, individual, that means an individual doctor or nurse practitioner. I would then look at the taxonomy description. That just means your specialty. So cardiovascular, that's what you see there. And in my example I said, let's look at cardiologists in Houston, Texas, so I would go to the city and state text at the bottom, and then I would just click okay, and what will happen is that you will get a list of HCPs, cardiologists in this case, in the city of Houston who practice cardiology. You see this thing at the right that says internal medicine, that means that these are all doctors like myself who train in internal medicine, then they do cardiology. So these are all cardiologists in the city of Houston.

Q. And do companies typically just pull this sort of data and use it?

A. It's a starting point. This data can be linked to other physician characteristic data that is available from a number of different places, so companies that sell this sort of data, I call this physician characteristics data in the field of economics and medicine that's how we call it. In programmatic

1 advertising, they call it audience data or ACP identity data.
2 Those data sets start with this foundation right here and then
3 you can add on to it.

4 Q. For this litigation, did you do an analysis of whether
5 there are alternative data sources to create audiences for HCP
6 programmatic advertising?

7 A. Yes. As I mentioned I worked with a lot of these kind of
8 data before, and so I had the expertise to undertake that sort
9 of analysis and that's what I did.

10 Q. And what was the analysis you did?

11 A. So in my report, and I will show it to you here, I created
12 an exhibit. I will say what the exhibit is. It is titled
13 "Comparison of Data Fields Across Select Providers of HCP
14 Audience Data." What it is is the following. There are a
15 number of companies that provide audience data. This is a
16 subset of those companies. There is more than what you see on
17 this screen. And what I did is identified a set of these
18 companies and looked to public information about what data
19 elements they possess, and these are data elements that we know
20 to be important in HCP programmatic advertising, the types of
21 data elements that are required to do that. Things like the
22 NPI, specialty might be very relevant for the reasons I just
23 described. If you want to sell a cardiovascular drug in
24 Houston, you want to know who the cardiologists are, perhaps.

25 And I went through this for each one of these

1 companies and identified which data elements they possess, and
2 what you can see here is there is sort of a sea of green
3 arrows. A lot of these data elements which are important for
4 programmatic advertising are possessed by a lot of these
5 different companies, including Symphony, for example, which I
6 have worked with myself.

7 Q. Can you tell us a little bit about some of the other
8 companies that are on the list here as well?

9 A. Sure, yeah, so IQVIA is at the bottom. Definitive
10 Healthcare is a company I think we have heard about. Veeva
11 Crossix, that name has been mentioned. The NPPES is not a
12 company, but it's that foundational NPI registry that I just
13 showed us screenshots of a few moments ago.

14 Q. How did you find the information to fill out this chart?

15 A. I and my team basically looked at each one of these
16 companies' publicly available documents to understand,
17 including things like data dictionaries, what data elements
18 they possess.

19 Q. What does the fact that there are many providers of this
20 same data say to you?

21 A. As someone who has used a lot of this data and a lot of
22 these kinds of data, some of which are not even on this screen,
23 it says to me that if a particular data product, let's say
24 Symphony's or IQVIA's, were not available, that there would be
25 other audience or physician characteristics data that someone

could turn to.

Q. What else did you do to assess the relevance of these alternatives?

A. I also looked at the record and in my framework that you saw earlier, I described the importance of looking at evidence in the record about whether or not companies use different HCP audience databases. They do, whether they switch to and from them, they do.

Q. And did you look at evidence of whether DSPs were switching or using different data sources?

A. I did, and I find that they do.

Q. Let's turn to claims and prescription data. What are medical claims and prescription data?

A. So at a really high level, medical claims refer to claims for medical services that are provided by healthcare professionals. So if you can to a doctor's office and they perform an exam on you, evaluate you, set up a management plan, perform a lab test, that's a medical service that would show up in something called medical claims data. If that doctor prescribes a prescription for you, a drug, you fill that prescription, that shows up in prescription claims data.

Q. So I will ask the same question I asked with respect to the audience data, which is, for the claims and prescription data, where does that come from?

A. So let me show you this in a story that I think is

1 important, because one thing I think that is important is to
2 sort of demystify where these data come from. There are a lot
3 of names that we have heard about, but where do these data come
4 from?

5 So imagine you've got a woman who has high
6 cholesterol, and she goes to see her doctor. So this is a
7 woman who is seeing her doctor, and they discuss treatment
8 options.

9 The doctor says, okay, I would like to start you on a
10 cholesterol medication. So what happens is the doctor then
11 writes a prescription for that medication, probably now they
12 are doing it by computer and not by a print pad. We do that
13 still. So the doctor writes the prescription.

14 The patient says, all right, I want to take this
15 medication. So she goes to her pharmacy. Maybe it's a
16 Walgreen's or a CVS pharmacy. She fills that prescription.
17 And she does so by paying a copayment. She pays \$5 or \$10 at
18 the counter, and she gets her medication.

19 And then what happens is that the insurance company
20 that this woman has pays the remainder of that drug cost back
21 to the pharmacy. And so let's say she has Blue Cross/Blue
22 Shield. Blue Cross/Blue Shield sends a payment to the pharmacy
23 for that drug.

24 What's created here? What's created here is a
25 prescription event, a claim. A doctor with a particular NPI

1 saw a person on a given day, prescribed a given drug. That
2 drug was paid for by her insurance company—Blue Cross, Cigna,
3 Medicare, Medicaid, whatever it may be—and that generated a
4 prescription claim. It's a record of what happened that ties a
5 doctor or a nurse practitioner or any provider to something
6 that they prescribed.

7 So this is the origin. This is where these data come
8 from.

9 Q. And where does that data go initially?

10 A. So this is -- I just gave you one data point. Turns out
11 there are millions and millions of such encounters that are
12 happening across the country every year, and all of those
13 ultimately go to a few places, insurers that are insuring women
14 like the one I just talked about and pharmacies.

15 So, for example, if Blue Cross/Blue Shield has a lot
16 of individuals who they insure, all of those prescription claim
17 events they will have data on. Blue Cross/Blue Shield will.
18 Medicare will. State Medicaid agencies will. The pharmacies
19 will also have that information. So Rite Aid or Walgreen's or
20 CVS, these are large retail pharmacies. They have that
21 information as well.

22 So you can kind of think of it as the first step of
23 aggregation of that single data point, which becomes millions
24 of data points and first ends up here.

25 Q. Now, how does the data that you have described flow from

1 the first point of aggregation, which is the insurance
2 companies and the pharmacies that you have described? How does
3 that flow from them to HCP programmatic advertisers?

4 A. Good question. So the way that it flows is it flows
5 through companies that aggregate that data. So there are a
6 number of different companies, many of which we have heard
7 about in this room, some of which are here now on this slide.

8 What these companies do is that they aggregate, they
9 assemble this data across multiple different places. It's not
10 their data, it's the insurer's or the pharmacy's data --

11 (Court reporter confers)

12 A. It's their data, not the company's, but they aggregate it
13 or it originates from insurers and pharmacies. They aggregate
14 it, they assemble it, they process it, they make it usable to
15 people who want to use the data, but that's the process.

16 Q. Have you licensed this sort of data before?

17 A. I have in both my research, in part of litigation, also I
18 mentioned I worked with a lot of life science and healthcare
19 companies in the past, so I have worked with them using a
20 variety of these kinds of data.

21 Q. And how are these types of data used in HCP programmatic
22 advertising?

23 A. So these are -- again, just to level set, these are
24 prescription claims data. There is also medical claims, but
25 these are prescribing events.

1 They are used in two ways:

2 So the first is if you want to generate an audience of
3 providers that you want to reach, you could start by saying I
4 want to target cardiologists. But you might want to be a
5 little bit more refined in that. You might want to be a little
6 more advanced and say it's not just cardiologists, I want to
7 target cardiologists who prescribe this particular blood
8 pressure or cholesterol medication. These data allow you to do
9 that because you know the NPI. You know the healthcare
10 provider that prescribed that medication, and so you can do
11 that. That is sort of an advanced audience.

12 And the second thing is in the measurement side. If
13 you are doing advertising to healthcare providers, whether it
14 is programmatic advertising, detailing doctors in their
15 offices, sending them print journals with advertisements in
16 there, whatever you are doing, you want to measure the efficacy
17 of those interventions, so that's a measurement issue.

18 Q. And are these prescription and claims data available
19 publicly?

20 A. They can be purchased. These data here are available to be
21 used and they are used, but there are other versions of these
22 data that are less granular than what you see here, but they
23 are sort of illustrative of what these data look like.

24 I have an example which I think would be really useful
25 to look at, if that's okay.

1 Q. Yes.

2 MR. OBARO: Your Honor, may we approach?

3 THE COURT: Sure.

4 MR. OBARO: Thank you.

5 THE WITNESS: So, first thing, your Honor, I will move
6 the water from this computer.

7 Go ahead, sir.

8 BY MR. OBARO:

9 Q. When you are ready, Dr. Jena, can you show us how one might
10 access claims or prescriptions data.

11 A. Sure. So you can see it on your screen, I hope. So I am
12 going to take you to a website that is maintained by CMS, The
13 Centers for Medicare and Medicaid Services, and this is data
14 and information on drug prescribing in the Medicare Part D
15 program. So this is a huge program, elderly Americans,
16 significant users of prescription drugs, an important
17 population to look at, and many people are interested in this
18 group.

19 So I am just going to scroll down here and show you
20 what you can see on this public website. So I'm going to
21 click "view data" and what I'm going to try to show us is how
22 we can identify a group of physicians who are prescribing a
23 certain drug.

24 So let me start by saying the following. I mentioned
25 earlier that we might be interested in cardiologists. So I'm

1 going to find cardiologists in this data. That's prescriber
2 type, and it is going to contain the specialty of cardiology.
3 And I want to be really targeted here. I don't want to just
4 look at cardiologists, I want to look at cardiologists in,
5 let's say, Houston. So let's go to the prescriber city. I'm
6 going to type in Houston, Houston, Texas.

7 But I want to go further than that. I want to
8 identify cardiologists in Houston who prescribe cholesterol
9 medication, let's say Lipitor. Lipitor goes by the generic
10 name atorvastatin. So I'm going to find the generic name, and
11 I'm going to write atorvastatin. then I'm going to click
12 "apply filters."

13 Then I'm just going to scroll down, and what I have
14 for you here is all of the cardiologists in Houston, Texas, who
15 prescribe the drug atorvastatin. That's what we have here.
16 Let me walk you through these columns because it's really
17 interesting and illustrative of what these data are and where
18 they come from. So the first column says prescriber NPI.
19 That's the National Provider Identifier. That is the person
20 who prescribed the drug.

21 The next column you see it says prescriber last org
22 name. This is the last name of the doctor, so it says, for
23 example, in the second row, Benrey, Dr. Jaime Benrey. You
24 scroll over a little bit to the right, you can see this person,
25 this doctor is in Houston. They are a cardiologist. We also

1 have some interventional cardiologists here as well. And they
2 prescribed atorvastatin, just like I said.

3 Now, suppose I'm a company and I have a limited
4 budget, and I don't want to just target all cardiologists in
5 Houston who prescribed this drug, but I want to focus only on
6 the highest volume prescribers. The way I would do that is
7 look at that column at the very right of the screen that says
8 "Tot claims," "total claims." That's the total amount of times
9 that that provider has prescribed that drug to the Medicare
10 population in the city of Houston.

11 You could use these kinds of data to try to conduct
12 that sort of analysis. So these data are publicly available
13 and within a few moments we are able to construct a list of
14 physicians in the city of Houston who prescribe atorvastatin.

15 Q. Thank you, Dr. Jena.

16 Dr. Jena, what was the purpose of the demonstration?

17 A. The purpose of the demonstration is to show that the
18 underlying data that I just showed you a few slides ago, the
19 underlying data from which companies are basing their products,
20 are coming from places like this. This data is obviously less
21 granular than what you could buy, but it's free. It's less
22 granular, it's not the same, but it illustrates that these data
23 are coming from these kinds of places.

24 THE COURT: Doctor, can I ask you a question? Is it
25 safe to assume that the data that you have been discussing and

1 that you rely on in your work don't include individuals who are
2 uninsured?

3 THE WITNESS: So it depends on what kind of data.
4 Great question. So in this case here, these are individuals
5 who have Medicare insurance. Most prescription drug use in
6 this country is coming through people who are insured. There
7 may be places where you can get data on people who are
8 uninsured. Typically -- or you will not see it in claims data.
9 And the reason why is because a claim means that a pharmacy or
10 a doctor billed an insurance company. So if there is no claim,
11 that means that person doesn't have insurance.

12 The way to get inside into that population, which I
13 think is important, is things like electronic health record
14 data, which is a different type of data than what we are
15 talking about here.

16 THE COURT: Thank you.

17 THE WITNESS: Yeah.

18 BY MR. OBARO:

19 Q. Dr. Jena, what does your analysis and the demonstration
20 tell you about whether or not there are alternative data
21 sources for prescription claims data?

22 A. I will just unplug this, if you don't mind. So what it
23 says is that there are alternatives. And we have heard that
24 from a number of different parties in this litigation. But
25 this is, again, illustrative of the fact that these data that

1 we are talking about, these companies, they are procuring,
2 assembling data from other places under other underlying
3 sources.

4 Q. And did you analyze whether other DSPs use other data
5 providers?

6 A. I did, and there is a lot of evidence in my report and
7 evidence has been talked about in testimony in this litigation
8 that is consistent with that.

9 Q. Dr. Jena, I would now like to move to your second opinion.
10 Can you remind the Court what your second opinion is?

11 A. Sure. I don't know if I can pull this up on my slides
12 here, but -- I can't see it on my screen, but I can actually
13 see it on your screen, if it's okay. So my second opinion
14 is --

15 MR. OBARO: One second, Dr. Jena. We can -- may we
16 approach?

17 THE COURT: You may.

18 (Pause)

19 A. Now it showed up on my screen. Power of technology.

20 Can you ask your question again if you don't mind?

21 Q. Yes. Can you share with the Court what your second opinion
22 is.

23 A. Sure.

24 My second opinion is that a more unified approach to
25 healthcare provider HCP and DTC, direct to consumer,

1 advertising would benefit a lot of different healthcare
2 parties, drug companies, medical device companies, anybody who
3 is selling healthcare products, patients, consumers, healthcare
4 marketing agencies, but, again, primarily I'm a doctor, so I'm
5 thinking about patients and doctors.

6 Q. And what's the basis for your second opinion?

7 A. I would say it is threefold.

8 So one is my medical training and experience as a
9 physician. There's been a lot of important testimony in this
10 case. I don't know that it's involved a lot of HCPs. And so I
11 have that, I think, important, unique perspective.

12 The second is I have looked at, and I am aware of and
13 know from my other research and as well as from this case,
14 academic literature that looks at the impact of advertising on
15 patient engagement, patient education.

16 And the last thing is there are documents and trial
17 testimony that speak to whether clients in this case who are
18 thinking about healthcare companies or marketing agencies,
19 whether or not they prefer coordinated campaigns, and some do.

20 Q. Dr. Jena, do you get served with digital advertisements as
21 an HCP?

22 A. I do, yes.

23 Q. And what kind of digital advertisements do you get served
24 with?

25 A. I get them from a lot of different places. I get drugs, I

1 get devices, I get healthcare equipment, like scrubs and
2 stethoscopes, probably even seen wheelchairs in the past,
3 imaging, lots of different places.

4 Q. And when you mentioned drugs earlier, do you get advertised
5 with prescription and over-the-counter drugs?

6 A. Both, yes, yeah.

7 Q. What are some of the benefits of marketing to physicians?

8 A. Medicine is dynamic. It's changing a lot. This is also a
9 very new industry, obviously, but medicine has been going
10 through this for a long time. Every year there are new
11 medications that come out, there are new uses of existing
12 medications. So it's a lot for doctors to sort of keep and
13 nurse practitioners and other providers to keep in their minds.
14 So marketing can be useful for informing them about what's out
15 there that's new and new uses for something that they already
16 may know about.

17 Q. How does effective marketing to physicians affect patients?

18 A. I think the short answer is it helps doctors make sure that
19 the right patients get on the right drugs at the right time.

20 Q. And does marketing to patients also have healthcare
21 benefits?

22 A. It does. We call that direct-to-consumer, though I like to
23 say it's direct-to-patient advertising, and that's important
24 and there is literature on this, for patient education, for
25 patient engagement with their medical providers, both of those

1 things.

2 Q. I want to talk about having a coordinated message between
3 the HCP and the patient. Can you talk about whether there
4 would be benefits to having a coordinated message between the
5 HCP and the patient?

6 A. Yeah. Happy to do so. Again, my perspective as a
7 provider, so I'll maybe kind of come back to that story that
8 we talked about earlier, remember I said there is a woman who
9 went to go see her doctor because she had high cholesterol,
10 and the doctor wrote a prescription for a drug, a statin
11 medication, and suppose that medication didn't work. Maybe it
12 didn't work because her cholesterol wasn't lowered low enough.
13 Maybe it didn't work because she had side effects with the
14 medication and so she needed to be on something different. It
15 turns out there is a new medication, brand new medication that
16 comes out into the market, it's called a PCSK9 inhibitor, uses
17 a brand new technology, it lowers LDL levels, cholesterol
18 levels dramatically, much lower than statin medications, but
19 it's new so people are a little concerned about it. And the
20 other thing is that it is an injection. It's not something
21 that we just take by mouth, like our patient took Lipitor. So
22 there is a lot of uncertainty about using an injection for
23 something like high cholesterol, even though the clinical
24 evidence suggests that it might be a very good drug for this
25 person.

1 So what happens? Both the doctor, who is a healthcare
2 provider, both the patient, who is a quote/unquote consumer,
3 they both start seeing advertisements that are targeted towards
4 them for the drug Repatha. The woman on the right, the
5 patient, sees ads that are focused in the consumer way. The
6 doctor gets ads that are focused on the things that a provider
7 might care about. But there is some uniform messaging that's
8 happening at the same time.

9 What happens then? They have a discussion in the
10 office. They agree to trying this medication which, again, is
11 a new medication, the doctor may not have heard about it before
12 because it's new, the patient may be apprehensive because it's
13 an injection, but that information, that discussion sort of
14 normalizes what might come to follow. So the doctor writes
15 that prescription once again, and then the patient goes to CVS
16 Pharmacy, fills it.

17 So if I were to sort of summarize the potential
18 promise here from a clinical perspective, it's really sort of
19 the right information, the right ads for the right person at
20 the right time.

21 MR. OBARO: Thank you, Dr. Jena. I have no further
22 questions at this time.

23 THE COURT: Ms. Siva.

24 MS. SIVA: Good morning, your Honor. This is Nita
25 Siva for the Federal Trade Commission.

1 May my colleagues approach with exhibit binders?

2 THE COURT: Absolutely.

3 CROSS-EXAMINATION

4 BY MS. SIVA:

5 Q. Good afternoon, Dr. Jena.

6 A. Hi. How are you doing?

7 Q. Good.

8 Dr. Jena, isn't it correct that it's physicians --
9 it's not physicians but pharmaceutical companies who purchase
10 programmatic advertising?

11 A. Yeah, I'm not aware of physicians purchasing programmatic
12 advertising. It's usually going to be healthcare companies.
13 It may be pharmaceutical companies. It could be biotechnology
14 companies, could be medical equipment companies, imaging
15 companies, device companies, but healthcare companies.

16 Q. And it's pharmaceutical companies or healthcare companies
17 who decide which data providers to use for HCP programmatic
18 advertising, correct?

19 A. I think it would be the underlying companies perhaps in
20 tandem with agencies like marketing agencies that they would be
21 working with who would figure out who to use.

22 Q. And it is those pharmaceutical companies and healthcare
23 companies that know what their needs are for HCP programmatic
24 advertising, correct?

25 A. I think it would be accurate to say that they know their

1 needs best because they are the ones who are doing it. They
2 are paying for it.

3 Q. And Dr. Jena, you didn't reach out to any pharmaceutical
4 companies or healthcare companies to determine how they
5 advertise digitally.

6 A. In this case here I didn't talk to any programmatic
7 advertising companies or healthcare companies about their use,
8 and the reason why is because it wasn't necessary for my
9 conclusions. I'm looking objectively at what the data are, how
10 they are used, not why they might use it for one purpose or
11 another.

12 Q. And you have not been involved in programmatic advertising
13 campaigns, correct?

14 A. Yes, that's correct. I'm an economist, a physician, and a
15 professor, but I'm not a healthcare programmatic advertiser.

16 Q. And you haven't consulted with a pharmaceutical company or
17 life sciences or healthcare company on how it should conduct a
18 programmatic advertising campaign, correct?

19 A. Yeah, I would say that's correct. I have had a lot of
20 experience with those sorts of companies on messaging to the
21 public, physicians and nonphysician public, but not on the
22 programmatic advertising side.

23 Q. And in your report, you haven't analyzed the effectiveness
24 of an HCP programmatic advertising campaign compared to another
25 method of digital advertising, such as, advertising on a social

platform, correct?

A. Yes, that's not part of my report. That analysis that you just described wasn't necessary for the conclusions that I reached.

Q. Dr. Jena, you testified that there are many sources of HCP audience and prescription data for programmatic advertising, correct?

A. Yes, I would say that is correct.

Q. But, Dr. Jena, you have never evaluated data specifically for the use on a programmatic advertising campaign.

A. It is correct to say that I have not used it for programmatic advertising because, as you asked a moment ago, I'm not a programmatic advertiser, but it is important to recognize that the data that are being used are the same as being used in programmatic advertising, that are being used for health economics outcomes research, that are being used in research like my own, that CMS uses for its public policy evaluations, the data is the same and, as I hope I conveyed to you and the Court, the methodologies are also the same as well, identifying an audience, a cohort of physicians, studying the effect of an intervention, in this case a programmatic advertisement versus something else.

(Continued on next page)

1 Q. But you don't know what pharmaceutical companies are
2 looking for when they are choosing a data provider for HCP
3 programmatic advertising?

4 A. I have not spoken to pharmaceutical companies about
5 programmatic advertising. I have worked with a lot of
6 pharmaceutical companies who use IQVIA, Symphony, Optum, other
7 large-claims databases physician characteristics data, and they
8 tend to use a lot of different data. They don't just use one
9 data source.

10 I am familiar with the sort of things that they are
11 concerned about, as they are the things that I would be
12 concerned about as a researcher. The functionality is
13 basically the same thing when it comes to programmatic
14 advertising. It just is used for programmatic, as opposed to
15 any number of things that that data could be used for.

16 Q. But you testified just a moment ago that you didn't reach
17 out to any pharmaceutical companies or healthcare companies
18 regarding who they are using for programmatic advertising,
19 correct?

20 A. So I just say as a general answer I haven't spoken to the
21 pharmaceutical companies specifically about who or why they are
22 using particular products.

23 If you look at my report, I do describe what various
24 companies, including DSPs, demand-side platforms, are using, so
25 I have that in my report, but I haven't had phone calls or

1 in-person meetings with those types of individuals.

2 Q. In fact, you have testified in this case during your
3 deposition that this case is the first time you've ever
4 considered alternative data sources for HCP programmatic
5 advertising, correct?

6 A. I didn't know a lot about HCP programmatic advertising
7 until this case. It's a pretty new field. There is no -- as
8 far as I know, no academic literature on HCP programmatic
9 advertising. It's really, really new. The types of data that
10 are used I've been working with for decades, and many of the
11 types of data that are on this schematic here I have
12 familiarity with, and I can speak to those data attributes and
13 how they are used and perhaps why they are used. But, again,
14 I'm not a programmatic advertiser.

15 MS. SIVA: Your Honor, for the rest of my examination
16 I'll be asking questions that will likely reference material
17 that's been marked confidential, so I ask for the courtroom to
18 be sealed.

19 THE COURT: Very well. Again, if you are not part of
20 the litigation teams, please leave the courtroom.

21 (Pages 1320-1341 SEALED)

1 THE COURT: Ms. Fiebig, does IQVIA rest?

2 MS. FIEBIG: We do, your Honor.

3 Just, in resting, we wanted to thank the Court for
4 your time and attention and opposing counsel for all the
5 professionalism throughout these proceedings.

6 THE COURT: Very well.

7 MS. FLEURY: Your Honor, the FTC does have a
8 housekeeping issue to raise, if the Court has time for that
9 now.

10 THE COURT: Sure.

11 MS. FLEURY: This is very administrative, but we
12 wanted to talk about the findings of fact that are due next
13 Thursday and get some guidance from the Court on the
14 complicated issues of sealing, and we have been dealing with
15 confidentiality in this open proceeding.

16 One idea, and something we have done in some past
17 cases, is to allow both sides to initially file the findings of
18 fact entirely under seal and then have a deadline to move for
19 more specific targeted confidentiality.

20 When that deadline is, given the time of year, is
21 something I would be happy to take some guidance from the Court
22 on. And to the extent you need those determinations to be made
23 before you make your final ruling, we will be flexible. But
24 that was one thing that I didn't have a chance to confer with
25 defendants. I'm happy to about the specifics and the

1 deadlines. But I wanted raise that because that deadline is
2 approaching next Thursday.

3 THE COURT: Why don't you confer with IQVIA. I'm
4 happy to wait a couple of weeks for the ultimate unsealing of
5 whatever can be unsealed on the public record, but it should
6 not be much, much more than that. Obviously, I will want to
7 see the stuff that's not sealed so that I can make my
8 determination.

9 MS. FLEURY: You will have access obviously to
10 everything. This is about public access. To that end, we
11 agree, your Honor, and the FTC is aligned in terms of wanting
12 public access, including to exhibits that weren't necessarily
13 introduced in this proceeding that were on both sides' list.
14 We will also confer about a procedure to present to the Court
15 on that issue.

16 THE COURT: OK.

17 MS. FLEURY: The last thing, like defense counsel, we
18 just want to thank the Court for their time and attention and
19 in particular the court staff, including the very hard-working
20 court reporters who dealt with quite a cast of characters,
21 particularly on our end, many of whom had never spoken in court
22 before. We really appreciate the opportunity and the time and
23 attention.

24 THE COURT: I think, more importantly, they heard a
25 lot of words that they never heard before.

I told you folks that I would give you a little bit of guidance, at least in terms of what I would hope you would include in your submissions of next week.

First of all, we did discuss a glossary. To the extent that you can provide a glossary of the various terms that have been discussed, including, just to name some of the obvious examples, HCP programmatic advertising and audience identity activation measurement, that would be very, very helpful to the Court. There are dozens of others. It would be useful if they were to be submitted on consent, although I understand there may be some differences in how you would want to go about that, and that there will not be consent -- I am not going to ask you to provide one definition of the relevant market in this case, so you don't have to do that.

In terms of matters that I am particularly interested in, the parties' dispute in their papers, the standard to be applied, which is a little surprising to me. There are any number of different areas of law. Although there is a lot of disputes between the parties that come before me, generally speaking, the standard is not at issue. There is a standard, one side says they meet it, the other side says they don't, but rarely do I get a dispute concerning the actual standard.

Again, it may be less of a difference than I'm thinking about right now, but right now we have fair and tenable from the FTC and serious questions from IQVIA. Is

there really a difference? If so, what is that difference?

What is the extent and importance of that difference?

It would be helpful if the parties were to provide at least a brief history of the industry. I understand that it doesn't appear to be particularly long, but it would be useful to have some sort of arc in terms of when it began and how it has developed from your perspective, and what do the cases say about how courts should analyze younger markets. Are there any special considerations that should be raised?

Just very quickly on the relevant market, as I understand it, the FTC indicates that the relevant market is at least geographically international global in scope. I think there has only been one mention of international scope here. I believe one of the witnesses indicated that international is important for their pharma clients because they are international corporations. Other than that, there has really been no discussion about the international scope. To the extent that the FTC is going to continue to advocate for an international geographic scope, I would want some discussion of that.

I have to say, one specific area, I was very confused this morning concerning the Google testimony. Does Google allow for HCP programmatic advertising or not? Do they allow for targeting of HCPs or not? I heard the testimony, and I heard there was some back and forth about that, so that would

be useful.

On the issue of substitutes, there may be an issue here, I don't know, that reasonable substitutes for the IQVIA products or the combined entity products may be available or may be available from different sources. So what do the cases say about -- you have the merged entity, but you also have a cafeteria of different choices that you can rely on to substitute the products. Am I describing that accurately? Is there case law about that? Does there have to be like a single-source substitute or can you substitute by reference to multiple sources?

There has also been a lot of discussion about ordinary-course documents. We have seen a lot of emails. We have seen a lot of marketing materials. I know that there are cases that say, you don't need to put a lot of emphasis on these types of materials. You don't necessarily need to describe the relevant market by reference to what the participants are saying in the moment, in the competitive moment. So how should I address analyzing the documents, in particular that the FTC has identified.

I think those are the general things. I know that there is still the issue of whether or not I will consider the entirety of Dr. Jena's testimony. That will be addressed in the ultimate opinion.

Is there anything else?

1 Ms. Fleury.

2 MS. FLEURY: No. We appreciate the Court's guidance.

3 THE COURT: Ms. Fiebig.

4 MS. FIEBIG: We do as well. Thank you very much, your
5 Honor.

6 THE COURT: Is anyone just a little bit sad like I am?

7 I also just want to say, I say this not always;
8 sometimes, although it's always sincere, not with the same
9 level of sincerity. But I have been very, very favorably
10 impressed by the presentation by both teams. I was at first
11 shocked that you would require so many lawyers, but after
12 seeing how much work went into this and how many different
13 witnesses and how many pieces of paper, I am now shocked that
14 it took only this amount of people to put it all together.
15 You've been very useful to the Court in terms of the materials
16 that you have provided and how efficiently you presented your
17 cases, so thank you very, very much for that.

18 We will see you next Friday. It will be across the
19 street in my courtroom.

20 I hope that you can at least take one of the days from
21 this weekend off. Take good care. Good night.

22 (Adjourned)

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